



SEQUENCE LISTING

<110> Farr, Spencer B.
Pickett, Gavin G.
Neft, Robin Eileen
Dunn, II, Robert Thomas

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 ctctcttgta gtaataaagc ttgtctgtgg gcgcttgtct tgtgtgagtg gaggggaggt 480
 gtcattgtcca gttgggagtt ctttcca 507

<210> 123
 <211> 510
 <212> DNA
 <213> Canis familiaris

<400> 123
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 cgggtcgtat cacatgaaga gattatgcag gcagccaagg aggccaacat acaccacttc 180
 atcgagacac tcctgagaa atacaacacc agagtaggag acaaaggaaac ccagctctct 240
 ggtggccaga aacagcgcct tgccatagct cgcgctcttg ttagacagcc tcatattttg 300
 cttttggatg aagctacatc agctctggat acagaaagtg aaaaggttgt ccaagaagcc 360
 ctggacaaag ccagagaagg ccgcacctgc attgtgatcg cccaccgctt gtccaccatc 420
 cagaatgcag atttaatagt ggtgtttcag aatggcaaag tcaaggagca tggcacacat 480
 caacagctgc tggtcagaa aggcatttat 510

<210> 124
 <211> 509
 <212> DNA
 <213> Canis familiaris

<220>

<221> misc_feature
 <222> (1)...(509)
 <223> n = A, T, C or G

<400> 124

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tagatcgact	gcgagcagat	gcgtagcatt	tgctgcatga	gtgaattccg	aagtataaat	180
tggccctggc	aaatggctag	cctcatgaaa	ctggaataag	cgctttgaaa	agaaatttgt	240
ccttgaagct	ngtatctgat	atatcagcan	tggattgtag	aacttgttgc	tgatcttgac	300
nttgtatcca	agttaactgt	tcccttggtg	tatgtttaat	accgcctatt	ccaggattct	360
ctagaggctg	gcaagagtct	gaaccagttg	tcatttctgt	cttgccggtc	taacagggtt	420
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accgtgggtg	gttaattgcc	ttgaagttg				509

<210> 125
 <211> 510
 <212> DNA
 <213> Canis familiaris

caaattgcct	ccaactaatc	agccctcttg	cccagacagt	caaatcatct	tctcgaaccc	60
caagtgcaca	gccagtagct	catgtttag	caaaccgccg	agctgagggg	cagctccagt	120
ggctgagccg	acgtgccaat	gacctcctgg	ccaatgacgt	ggagctgaca	gacaaccagc	180
tgatagtgcc	gtcagatggg	ttgtacctcg	atagctccca	ggctctcttc	aagggccaag	240
ggtgcccttc	cacccatgtg	ctcctcacc	acaccatcag	ccgcttcgcc	gtctcctacc	300
agacaaaggt	caacctactc	tctgccatca	agagcccttg	ccaaagggag	acccagagg	360
ggaccgaggc	caagccctgg	tacgagccca	tctacctggg	aggggtcttc	caactggaga	420
agggtgatcg	actcagcgct	gagatcaatc	tgcctaacta	tctggacttt	gccgagtctg	480
ggcaggtcta	ctttgggatc	attgcctctg				510

<210> 126
 <211> 510
 <212> DNA
 <213> Canis familiaris

gtccttgcat	cctcattgga	cctggcacag	gcacgcgcc	cttcgcagct	ttctggcagc	60
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gggtgccgcg	cccagatgag	gaccacctgt	atcggggagga	gatgttgagg	atggcccaga	180
gtgggggtgct	gcacagaggt	cacacagcct	attctcgcct	gcctggccag	cccaaggctct	240
atgttcaaga	catcctgcgg	cagcagctgg	ccagccaggt	gctccgcatg	ctccatgagg	300
agcagggcca	cctttatgtc	tgtggggatg	tgcgtatggc	ccgggatgtg	gcccataccc	360
tgaagcacct	gggtggctgcc	aagctgagcc	tgagtgaaga	gcaagttgag	gactatTTTT	420
tccagcttaa	gagccagaag	cgctatcatg	aagatatctt	tggtgctgtg	tttccctatg	480
aggtgaaaaa	agatggtgca	gcaaaacagc				510

<210> 127
 <211> 499
 <212> DNA
 <213> Canis familiaris

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agaaatcacc	agggctccgaa	gcgagcaaga	gaatcccagg	acagagaatc	ccaagacaga	180
aagatcttca	ggggcctaga	aatctgttgc	tatggacctt	ttaccaacat	gcccacagat	240
caattagagt	ggatggtgca	cctctgtggg	gcttctgtgg	tgaaggagcc	ttcgttattc	300
accctcagca	agggcactca	tccagtggta	gtcgtgcagc	cggacgcctg	gacagaggac	360
agtggcttcc	atgcgattgg	gcagatgtgt	gaggcacctg	tggtgacctg	agagtgggta	420
ctggacagtg	tagccctcta	ccagtgccag	gagctggaca	cctacctgat	cccgcagatt	480
cccagaactg	ctgcagact					499

<210> 128
 <211> 385
 <212> DNA
 <213> Canis familiaris

<400> 128
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 tgtctggagg aatctgtatc tgtggagaca attgcaaatt tacaacctgc aactgtaaaa 120
 catgtcgaaa aagctgctgt ccttgctgcc cccccggctg tgccaagtgt gccagggtct 180
 gcatctgcaa aggaggctcg gacaagtgca gctgctgtgc ctgaaccgca tccgtggtgc 240
 tggggctggc gggggcgggg gttgtggatg ccacagcccc ggaaatgtct gtacagtgca 300
 ttagttgaga aactgaaatt attgtaccat aggttatgct ttttatatat ttgctcagag 360
 gtggtggtgg tgacactcat gtaaa 385

<210> 129
 <211> 507
 <212> DNA
 <213> Canis familiaris

<400> 129
 ggctctgttg ttggaaatat accccataag cgttactgca cttgttcttc acccccgga 60
 cagggtgaag agagctattc tgtgtcccca gggaaaatat attcaccctc aagacgattc 120
 catttgctgt acgaagtgcc acaaaggac ctacctgtac aatgactgtc caggcccagg 180
 gctggacaca gactgcaggg aatgtgaaaa cggaactttt acagcttcag agaaccacct 240
 cagacaatgt cttagctgct ccaaattgccg aaaagaaatg aaccagggtg agatttctcc 300
 ttgtactgtg taccgggaca cggtgtgtgg ctgcaggaag aaccagtacc ggttttattg 360
 gagtgaaacc cttttccagt gcaataactg cagcctctgc ctcaatggca cggtgcagat 420
 ctctgccaa gagaagcaga acaccatag cacctgccac gcggggttct ttctaagaga 480
 gcatgaatgc gtctcttggtg tgaactg 507

<210> 130
 <211> 504
 <212> DNA
 <213> Canis familiaris

<400> 130
 gagacttggc tgctagaaat atcctcctta ctcatggtcg aatcaciaag atttgtgatt 60
 ttggtctagc cagagacatc aagaatgatt ctaattatgt ggtcaaagga aacgctcggc 120
 tacctgtgaa gtggatggcc cctgagagca ttttcaactg tgtgtacaca tttgaaagtg 180
 atgtctggtc ctatgggatt tttctgtggg agctcttctc tttaggaagc agcccctacc 240
 ctgggatgcc agtcgattca aagttctaca agatgatcaa ggaaggcttc cggatgctca 300
 gccctgagca tgcacctgct gaaatgtatg acatcatgaa gacgtgctgg gatgctgatc 360
 ccctgaaaag gccgacgtcc aagcagatcg tgcagctaat tgagaagcag atttcagata 420
 gcaccaatca tattttattcc aacctcgca actgcagccc caaccagag cgccccgtgg 480
 tggaccattc cgtgcggatc aatt 504

<210> 131
 <211> 508
 <212> DNA
 <213> Canis familiaris

<400> 131
 ccaatttgaa gcctttctca aggagataat gctaaacaac gaaatgaaga aagaagaaaa 60
 cattgcaatg caaaaagggtg atcaggatcc tcgaattgca gcccatgtca taagtggagg 120
 tagtagtaac ccagcgtccg ttctgcggtg ggcgcaaaa ggggtactaca ccataagcag 180
 caacctggtg agcctcgaga atgggaaaca gttggccgtg aaaagacaag gactctatta 240

cgtctatgcc	caagtcacct	tctgctccaa	tggggcagct	tcgagtcaag	ctccgttcgt	300
cgccagccta	tgcctccatt	ccccgagtgg	aacggagaga	gtcttactcc	gcgccgcgag	360
ctccccgggc	tcgtccaaac	cttgcgggcca	acagtccatc	cacttgggag	gagtatttga	420
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gaccggcttc	acgtcttttg	gcttactc				508

<210> 132
 <211> 508
 <212> DNA
 <213> Canis familiaris

<400> 132						
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tggcacatac	tgtggaactc	tggtgccaga	tcctatcttc	tctcgaaaca	acaaactata	120
cctacggttt	aagaccgata	gcgcaacttc	caatcgtggg	tatgaaattg	tctggacctc	180
atcacctctc	ggctgtggtg	gaacccttta	tggagacagt	ggttccttca	ccagccccgg	240
ctatccccgc	acttacccca	acaacactga	ctgtgaatgg	gccatcatcg	ctcctgctgg	300
aagacctgtc	accgtcacct	tttactttat	cagcatcgat	gatccccggg	actgtgtcca	360
gaactatctc	atactctacg	atggaccgga	tgctaattct	ccatcctttg	gaccatactg	420
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tcacgcagag	tatgcagtgt	atccatca				508

<210> 133
 <211> 499
 <212> DNA
 <213> Canis familiaris

<400> 133						
cagatgtgga	gtatgagatg	gacgagaagt	ccaggggcac	gaggctggat	ggcctgaacc	60
tcatcgacat	ctggaagaac	ttcaaaccga	gacacaagca	ctctcactac	gtctggaacc	120
gcacggaact	cctggccctc	gacccttaca	ccgtggacta	cctcttgggt	ctctttgagc	180
cgggggacat	gcagtacgag	ctgaacagga	acaacgtgac	tgaccogtca	ctctccgaga	240
tggtggaaat	agccatcaag	attctgagca	agaaccccag	aggettcttc	ttgctggtgg	300
aaggaggcag	gattgaccac	gggcatcacg	agggcaaggc	caagcaggcg	ctgcacgagg	360
cagtggagat	ggaccgggca	attgggaagg	caggcgtcat	gacctccttg	gaagacacgc	420
tgaccgtcgt	cactgcggac	cactcccacg	tcttcacctt	tggcgggtac	accccccggg	480
gcaactctat	ctttggtct					499

<210> 134
 <211> 490
 <212> DNA
 <213> Canis familiaris

<400> 134						
actcagagag	catcctcaac	cctgatggat	ttgcttccta	cccctgtgct	tcctacaggg	60
cctttgaatc	taacaagtgc	ttccccctgc	cagatcaagg	gtgcccacag	atgggtcact	120
atgctgataa	atttgcctgc	aagacaagtg	atgagacaca	gaaatacttc	ctgaacaccg	180
gagattccag	caattttgct	cgctggagat	acggggtttc	tataacattg	tctgggaaaa	240
gagccactgg	tcaggctaaa	gttgctttgt	ttggaagtaa	gggaaatact	catcaattca	300
atatcttcaa	ggggattctc	aaaccaggct	ctactcattc	caatgagttt	gatgcaaagc	360
ttgatgttgg	aacaattgag	aaagtcaagt	ttctttggaa	taacaacgtg	gtaaacccaa	420
cctttcccaa	agtgggtgca	gccaagatca	ccgtgcaaaa	gggagaggag	aaaacagtgc	480
acagcttctg						490

<210> 135
 <211> 236
 <212> DNA

<213> Canis familiaris

<400> 135

agccctggag	gaagaggacc	cctccctcct	gggccttatg	cagggttaca	tgcagcacgc	60
caccaagacg	gcccaggaca	cgctgaccag	cgttcaggag	tcccagggtg	cgagcgggc	120
caggggctgg	atgaccgata	gcttcagttc	cctgaaagac	tactgcagca	cgtttaagg	180
caagttcact	gggttctggg	attcagcctc	tgaggccaaa	ccaactccag	cctctg	236

<210> 136

<211> 301

<212> DNA

<213> Canis familiaris

<400> 136

tcacctccca	actgattcca	actctggtct	gcttactagc	actcaccagc	acctttgtcc	60
acggacataa	cttcaatatt	actattaaag	agatcatcaa	aatggtgaac	atcctcacag	120
cgagaaacga	ctcgtgcatg	gagctgactg	tcaaggacgt	cttcactgct	ccaaagaaca	180
caagcgataa	ggaaatcttc	tgagagctg	ctactgtact	gcggcagatc	tatacacaca	240
actgtcccaa	cagatatctc	agaggactct	acaggaacct	cagcagcatg	gcaaacaaga	300
c						301

<210> 137

<211> 492

<212> DNA

<213> Canis familiaris

<400> 137

cttggtgcaac	tcccaaactg	tcatcagggc	caagttcgtg	gggaccgcag	aagtcaacca	60
gaccgactta	aaccggcggt	atgagatcaa	gatgaccaag	atgttcaagg	gtttcagcgc	120
cttgggggaat	gcctcggaca	tccgcttcgt	cgacaccccc	gccctggaaa	gcgtctgcgg	180
atacttgac	aggtcccaga	accgcagcga	ggagtctctg	gtcgccggaa	acctgcggga	240
cggacacttg	cagatcaaca	cctgcagttt	cgtggccccg	tggagcagcc	tgagtaccgc	300
tcagcgccgg	ggcttcacca	agacctatgc	tgctggctgt	gaggggtgca	cagtgtttac	360
ctgttcaccc	atccccctgca	aactgcagag	tgacactcac	tgtttgtgga	cggaccactt	420
cctcacaggc	tctgacaagg	gtttccagag	ccgccacctg	gcctgcctgc	caagagagcc	480
agggatatgc	ac					492

<210> 138

<211> 341

<212> DNA

<213> Canis familiaris

<400> 138

gcagattttt	gtaaagaccc	tgacgggcaa	aactatcacc	cttgaggtcg	agcccagtga	60
caccattgaa	aatgtcaaag	ccaaaatcca	agacaaggag	ggcatcccgc	ctgaccagca	120
gcgtctgatt	tttgccggga	aacagctaga	agatggccga	actctgtcag	actacaatat	180
ccagaaagag	tccaccttgc	acttggtgct	tcgcctgcga	ggtggcatca	ttgagccttc	240
actccgccag	ctggcccaga	aatacaactg	cgacaagatg	atctgccgca	agtgttatgc	300
tcgcctgcac	ccccgtgctg	tcaactgccc	caagaagaag	t		341

<210> 139

<211> 260

<212> DNA

<213> Canis familiaris

<400> 139

agcggtcagt	gtgaaggagg	tggactctgg	gaatgacatc	tacggcaacc	ccatcaagcg	60
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gattcagtat	gagatcaagc	agataaagat	gttcaaagga	ccagacaagg	acatagagtt	120
tatctacaag	gctccttcct	ccgcogtatg	cgggggtctcc	ctggacatcg	gaggaaagaa	180
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cttcacgtg	ccctgggaca					260

<210> 140
 <211> 493
 <212> DNA
 <213> Canis familiaris

<400> 140						
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aaccacagac	gccagcctgc	aggctatctt	gcagtcgcag	gatgagtgcg	tgaagcacac	120
aacaattcac	ctcatcctgc	ggagtctgga	ggatttcctg	cagttcagtc	tgagggctgt	180
tcggataatg	tagcctgggc	atctaagatt	gctgtagttc	atgggcattc	ctttctccag	240
tcagaaacct	gtgcagtggg	cacaaaactt	atgttggtct	ctgtgaggaa	ctaaaagtat	300
gagcgtagg	acactatttt	aattattttt	aatttattga	tatttaaata	tgtgatatgg	360
agttaattta	tataagtaat	agatatatat	attttttatg	aagtgccact	tgaaatattt	420
tatgtattca	ttttgaaaaa	gttaacgtaa	aatgctatgc	ggcttgaata	tcctcgatgt	480
ttcggagcca	ggt					493

<210> 141
 <211> 517
 <212> DNA
 <213> Canis familiaris

<400> 141						
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gggatacaac	cgtcgtggtc	agcccctcct	ccatcgtgga	ggaaggtagt	cctgtgaaca	120
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atgggcgctt	gcagtctctt	tctgaggatc	caattctcac	cttaacttct	gcaaaaatgg	240
aagattctgg	tatttatgtg	tgtgaaggga	ttaaccaggc	tggaaataagc	agaaaagaag	300
tagaattaat	tatccaagtt	gctccgaaaag	acatacagct	tatagctttt	ccttctgaga	360
gtgtcaagga	aggagacact	gtcattatct	cctgtacatg	tggaaatgtt	ccaaaaactt	420
ggataatcct	gaagaaaaaa	gcagagacgg	gagacacagt	gctaaagtcc	agagatggtg	480
catataccat	ccacaaggtc	cagttagagg	atgcggg			517

<210> 142
 <211> 495
 <212> DNA
 <213> Canis familiaris

<400> 142						
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agatgtagct	gtctcctatt	accacttcta	ccgcatggcc	aagggtgcacc	ctgaccctga	120
cacctgggac	agcttcctgg	agaagttcat	ggctggggaa	gtgtcctatg	ggtcctggta	180
tcagcatgtg	caggaatgg	gggagctgag	tcacactcac	cctgttctct	acctcttcta	240
tgaggacatg	aaagagaacc	ccaaaaggga	gattcagaag	atcctgaagt	ttgtggggcg	300
ctccctgcca	gaggagactg	tggatctcat	tgtccagcac	acgtctttca	aggagatgaa	360
gaacaaactc	atggctaact	acaccacctt	atctcctgac	atcatggacc	acagcatttc	420
tgccttcatg	aggaaaggca	tctcggggga	ctggaagacc	accttcaactg	tggcccagaa	480
tgagcgcttt	gatgc					495

<210> 143
 <211> 503
 <212> DNA
 <213> Canis familiaris

<400> 143							
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aaaacgggat	cggatcttgc	tgtgggtttg	tttgagacag	caacgctgag	atcaggctat		120
ctgctaccag	acactaaagc	atatggagat	cgaatagaaa	gaatgcttcg	cctcagttta		180
aacattgacc	ctgatgcaaa	ggtggaagaa	gaaccagaag	aagaacccga	agagacaacc		240
gaggacacca	cagaagacac	agagcaggac	gatgaagaag	aaatggatgc	aggaacagac		300
gacgaagaac	aagaaacagt	aaagaaatct	acagctgaaa	aagatgaatt	ataaattata		360
ctctcaccat	ttggaacctg	tgtggagagg	gaatgtgaaa	tttaagtcac	ttcttttcgag		420
agagacttgt	tttggtatgct	ccccgcagcc	cccttctccc	ctgcactgta	aaatggtggg		480
attgtgggtc	acagaaagaa	gtg					503

<210> 144
 <211> 506
 <212> DNA
 <213> Canis familiaris

<400> 144							
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tcaaagtatt	ctatcaccaa	catgcaaaaa	aatattttta	atgccacag	gcgagtacat		120
ggggaaatcc	tgtttaatac	tttgtgcaag	gattgctaaa	cacagtccta	atccctttta		180
cccctgtggg	attcagtgc	ttttaaagt	ttcttagaga	ttttaaagt	ttcttttatt		240
tgcattggct	aaagtacaat	tttcctaat	tcttaattca	gtgtaagtgt	ttagagactt		300
taaaatatat	gcatgttaga	gctatgatag	ggtaaaagt	acttatcagg	gatctttgtt		360
tatgaaggga	ctctaagtgt	atatctgtag	ttaattcatt	ttaaaagggg	caaagtctgt		420
ccccagtatt	acgtgaatca	gtgtaaagt	gtgaatgttt	ttactatagt	tgctttttaa		480
aacatgaata	gtgggggcacc	tgggtg					506

<210> 145
 <211> 501
 <212> DNA
 <213> Canis familiaris

<400> 145							
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ccaagctccc	caatctcatt	taccacagga	agattcctcc	ttacaatcac	ttggacttta		180
tctggggccat	ggatgcccct	caagcggttt	acaatgaaat	tgtttccatg	atgggaacag		240
ataataagta	gttctagatt	taaggaatta	ttcttttatt	gttccaaaat	acgttcttct		300
ctcacacgtg	gttttctatc	atgtttgaga	cacgggtgatt	gttcccatgg	ttttgatttc		360
agaaatgtgt	tagcatcaac	aatctttcca	ttggtaattt	ttgaatttaa	aatgattttt		420
aaatttgggg	catctgggtg	gctcagtcgg	ctaagtcgtc	tgccttcggc	ttaagtcatg		480
atctcggggg	cctaggatgg	a					501

<210> 146
 <211> 503
 <212> DNA
 <213> Canis familiaris

<400> 146							
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gcgcccgatc	ccccccgagg	tcgagggccc	cgccgcggcc	gccgcggccg	ccgcgcccgc		180
ctacagccgc	gcgctcagcc	ggcagctcag	cagcggcgtg	tcggagatcc	ggcagacggc		240
cgaccgctgg	cgcggtgtcc	tggacgtcaa	ccacttcgcc	cccaggagagc	tgacggtcaa		300
gacgaaggac	ggcgtgggtg	agataactgg	caagcacgaa	gagaggcagg	atgagcatgg		360
ctacatctcc	cgccgcctca	ctcccaaata	caccctgccc	cctggtgtgg	atcctacct		420

gggtctctctcc	tccctgtccc	ctgagggcac	tctcacggtg	gaggtctcca	tgcccaagcc	480
agccaccag	tcggcagaaa	tca				503

<210> 147
 <211> 472
 <212> DNA
 <213> Canis familiaris

<400> 147						
cggggtccctg	ctggaggact	ttaagagtta	cctgggttgc	caagccctgt	cggagatgat	60
ccagtttttac	ttggaggagg	tgatgccccg	ggctgagaac	cacgaccag	acatcaagaa	120
ccacgtgaac	tccctgggag	agaagctcaa	gaccctcagg	ctgagactga	ggctgcgacg	180
ctgtcaccga	tttcttccct	gtgagaataa	gagcaaggcg	gtggagcagg	tgaagagcgc	240
atttagtaag	ctccaggaga	aaggtgtcta	caaagccatg	agtgagtttg	acatcttcat	300
caactacata	gaaacctaca	tgacaatgag	gatgaaaatc	tgaaacgtgc	tgagaacaa	360
aacaccagag	atggcaactc	ttctcgactc	taggacatga	attggagatc	tgaaaatac	420
catcccgaga	tgtaggagag	cogaccaact	gcttggagaa	ccccgtcata	cc	472

<210> 148
 <211> 470
 <212> DNA
 <213> Canis familiaris

<400> 148						
tccgaggggc	acctctacac	cgttcccac	cgggagcagg	gcaacatcta	caagcccaac	60
aacaaggcca	tggcggagga	gatgagcgag	aagcaggtgt	acgacgcga	caccaaggaa	120
atcgacctgg	tcaaccgcga	ccccaaagcat	ctcaacgcag	acgtgggtcaa	gattgatttt	180
gaagatgtga	ttgcagaacc	agaaggaaca	cacagttttg	atggcatctg	gaaggccagc	240
ttcaccacct	tactgtgac	aaaatactgg	ttttaccgct	tgctgtctgc	cctctttggc	300
atcccaatgg	cactcatatg	gggcattttac	tttgccattc	tttctttcct	gcacatctgg	360
gcagttgtgc	cgtgcattaa	gagtttcctg	attgagattc	agtgcacag	ccgtgtctat	420
tccatctacg	tccacacctt	ctgtgacccg	ttctttgagg	ctggtggcaa		470

<210> 149
 <211> 193
 <212> DNA
 <213> Canis familiaris

<400> 149						
accatccagc	tcatccagaa	ccacttcgtg	gatgagtacg	acccaccat	cgaggactcc	60
tatcggaagc	aagtggatcat	tgacggggag	acgtgcctgc	tggaacatcct	ggacacagcg	120
ggccaggagg	agtacagcgc	catgcgggac	cagtacatgc	gcacggggga	gggctttctc	180
tgtgtatttg	cca					193

<210> 150
 <211> 514
 <212> DNA
 <213> Canis familiaris

<400> 150						
agacaagagg	tttcagccag	tgcattgacct	gactatcggt	gtagagtttg	gtgctcgaat	60
gataactatt	gatgggaaac	agataaaact	tcagatatgg	gatacggcag	ggcaagagtc	120
ctttcgttcc	atcacaagg	catattacag	aggtgcagca	ggggctttac	tagtgtatga	180
tattacaagg	agagatacat	tcaaccactt	gacaacctgg	ttagaagatg	cccgccagca	240
ttccaattcc	aacatgggtca	ttatgcttat	tggaataaaa	agtgatttag	aatcaagaag	300
agaagtaaaa	aaagaagaag	gtgaagcttt	tgcacgagaa	catggactta	tcttcatgga	360
aacttctgct	aagactgctt	ccaatgtaga	agaggcattt	attaatacac	caaaagaaat	420

ttatgagaaa atccaagaag gagtctttga cattaataat gaggcaaacy gcattaaaaat	480
tggccctcag cacgctgcta ctaatgccac acac	514

<210> 151
 <211> 521
 <212> DNA
 <213> Canis familiaris

<400> 151	
aagcctagtgt cttcggttttg tgaagggcca atttcatgaa tttcaagaga gtaccatagg	60
ggctgctttt ctaacccaaa ctgtgtgtct tgatgataca acagtaaagt ttgaaatatg	120
ggatacagct ggtcaagaac gataccatag ctttagcacca atgtactaca gaggagcaca	180
agcagccata gttgtatatg atatcacaaa tgaggagtcc tttgccagag ccaaaaactg	240
ggttaaagaa cttcagaggc aagccagtcc taacattgta atagctttat caggaaacaa	300
ggctgatctt gcaaataaaa gagctgtcga tttccaggaa gcacagtcct atgcagatga	360
caacagttta ttattcatgg agacatcagc taaaacatcg atgaacgtaa atgaaatatt	420
catggcaata gctaaaaagt tgccaaagaa cgaaccacag aatccaggag caaattctgc	480
cagaggaaga ggagtagacc ttactgaacc cacgcagcca a	521

<210> 152
 <211> 508
 <212> DNA
 <213> Canis familiaris

<400> 152	
ccccaacaca ttcaaaaccc tcgatagctg gagagatgag tttctcatcc aggccagtcc	60
ccgggatcct gaaaacttcc ctttcgttgt gttgggaaac aagattgacc tcgaaaacag	120
acaagtggcc acaaagcggg cacaggcctg gtgctacagc aaaaacaaca ttccctactt	180
cgagaccagt gccaaaggag ccatcaatgt ggagcaggcg ttccagacga ttgcaaggaa	240
tgcacttaaa caggaaacag aggtggagct gtacaatgaa ttccctgaac ccatcaaact	300
ggacaagaac gaccgggcca agacctcagc ggaaagctgc agttgctgaa ggggcagtga	360
gagcagagca cagagtcctt cacaaacaaa gaacacactt aggccttcca acacgagccc	420
ccttcttctc ttccaaacaa aacataaagt catctctcga atccagctgc caaaagacc	480
taccaaacac ttcacctga cacacaca	508

<210> 153
 <211> 256
 <212> DNA
 <213> Canis familiaris

<400> 153	
ctgggttctgt tgcttgctct cctgggtattg ggatttgagg tccagggggc ccatgagtc	60
cagcaagatg aaaccaccag ctccgccctg ctcaccaga tgcaggaatc actctacagt	120
tactggggca cagccagatc ggctgccgag gacctgtaca agaaggcata cccaactacc	180
atggatgaga aaatcaggga catatacagc aaaagcacag cagctgtgag cacttacgca	240
gggattttca ctgacc	256

<210> 154
 <211> 330
 <212> DNA
 <213> Canis familiaris

<400> 154	
ctgtccgcct ctgtccccct gttgcgcacg caggcaaggg ccaggtggcc gctgccccgg	60
agcatccagc accctcagcc cggggcccgag gctcccacct gcggcctcgg cgttgctcct	120
gcagctcctg gctcgacaag gagtgcgtct acttctgcc cctggacatc atctgggtga	180
acactcccgg gtgagctccc gcgggggaccc aggcggggct gctagaggcg gggcaggggg	240

tggggaacct gtagctagca cagctctccc tgggcctcca gacggatcgc tgagctgaca	300
tgaagagcgg ctgggtgttg tccctactcc	330

<210> 155
 <211> 498
 <212> DNA
 <213> Canis familiaris

<400> 155	
tgattgttct tctgccacca aaatgccagt agtaaacaaa cccatcgata ggaaagtatt	60
ttgttttgct gtgcagctct gtcattgggc ccatggagcg cggaactgga cttccaaga	120
caaagtgtac cagcgttctc ttaaaaagat gccttaatcc attcctcgag ggtggacctt	180
agttgagatg atagcagact gtaactccct cgggcagctg gccttctgcc ctgagttgca	240
cgttaatcag attagcctgt attctcttca gtggattttg ataattggctt ccagattcat	300
tggcgttagg gaagcctttt agaactcttca cgtgtcatcg tcgaaattga aacactgagt	360
tgttctgctg atggtttttg agatacttcc atctttttaa gggtttgctt ctgtctaatt	420
ctggcaggac ctcacaaaaa gatcgggcct cgtaccaacg tcagacacga tgcgcgcgtg	480
ttgtgcgttc tgtattta	498

<210> 156
 <211> 503
 <212> DNA
 <213> Canis familiaris

<400> 156	
gccttaccct cagggacctt gcattccaga tggtaaaaaat gccacacacc agtatgcaaa	60
ggctggcctc gcaccatggc aactgagcag ctgaaccagc gcaactcctca gcaggcggaa	120
atgctgaact gagaatgtca gtgctcaggg gccacacaggc taacctgtct cccacttcgt	180
agcatttttg cttttcaggg cacggcagca tttattactg ttagccaca tccctctgaa	240
gcagcagcat agctgacaat ttaaaaataa gaactaagaa catacctaag accataacgg	300
cagacaagta gcagggccga gactagagtt caggacctct gactcccaga gtgtcccg	360
agccaggtaa tgctccctgg aggtgcaaat aggggtgggc aggggagacc agaagtgtt	420
acagggagag aggacttgga ggtgattttg caggagggtga gggatgtgaa ttgcctgaat	480
ggcggaggct gttttgttca tgc	503

<210> 157
 <211> 510
 <212> DNA
 <213> Canis familiaris

<400> 157	
aggtgtccct gcagcccaac ttccaacagg ataagttcct ggggcgctgg ttcaacctcg	60
gcctcgctc caactcgagc tggttccggg agaagaagaa cgtgtgttcc atgtgtatgt	120
cagtgtgtgc cccgacgcga gacggaggcc tcaacctcac ctccaccttc ctcaggaaag	180
accagtgtga gactcgaacc ctgctcctac ggccggcggg aaccccgggc tgctacagct	240
acacgagtcc ccaactggggc agtaccacg acgtgtgggt ggtagccacc aactacgagg	300
agtacgcgct tctctacacc gcaggcagca aaggcctcgg ccaggacttc cacatggcca	360
ctctctacag ccgcacccag accccaaagg ccgagataaa ggagaaattc agcacctttg	420
ccaagacca gggcttcaca gaggatgcca ttgtcttctt gccacagact gataaatgca	480
tggaggagaa caagtaggtg accgcgcgcc	510

<210> 158
 <211> 472
 <212> DNA
 <213> Canis familiaris

<400> 158

caggactcca	cagcttttcc	ccagataagc	ctggagggat	attaatgatg	gatctaaaaa	60
aggaaaaccc	gagggcactg	gaattaagaa	tcagccgtgg	gttcaatttg	gcttcgttca	120
atccacatgg	tatcagcacc	ttcatagaca	gcgacgacac	agtttatctc	tttgttgtaa	180
accatccaga	attcaagaat	acagtggaaa	tttttaaatt	tgaagaagaa	gaaaattctc	240
ttctgcatct	aaaaacaatc	aaacatgaac	ttcttccaag	tgtgaatgat	atcatagctg	300
ttggaccagc	acattttctat	gccaccaatg	accactatct	ctctgatcct	ttcttaaagt	360
atttggaac	atacttgaac	ttacactggg	caaagtgtgt	ttactacagt	ccagatgaag	420
ttaaagtggg	agcagaaggg	tttgatgcag	caaagtggat	caatatttca	cc	472

<210> 159
 <211> 493
 <212> DNA
 <213> Canis familiaris

<400> 159		
cgccgtatgt	ggacgtcatc tgtgtcaaca gttactactc ttggtatcac gactatgggc 60	
acatggaggt	gattcagctg cagctggcca ccgagtttga gaactggat aggacctacc 120	
agaaaccaat	aatccagagc gagtacgggg cagagacaat tgcaggcttc caccaggatc 180	
cacctctgat	gttcagttag gtagaccaga aaggtctgct cgagcagtat cacttgggtgc 240	
tggatcagaa	acgcaaagaa tatgtggttg gagagctcat ctggaatttt gctgatttta 300	
tgactgacca	gtcaccacag agagcagtag ggaacagaaa gggcatcttc actcgccaga 360	
gacaacccaa	agcggcgccg ttccttttgc gagagaggta ctggaaactt gccaatgaaa 420	
ccgggcacca	ccggtccgcg gccaaagtcg agtgtttgga aaacagcccg ttcgccctct 480	
gaagcctctg	tct	493

<210> 160
 <211> 359
 <212> DNA
 <213> Canis familiaris

<400> 160	
ctccaggtgg	gcttcgagga cgtgatcgcg gacgccgtgt ctacgcactc ctttgacaaa 60
gtgtggattt	gcagccatgc cctgtttgag gtcagcaagt acgtgatcta caagttcctg 120
acgttgctcc	tggcgatgcc catggccttc gcggcagggg ttctcttcgc caccctcagc 180
tgcttgacac	tctggattat aatgcctttc gtgaagacct gcctcatggg cctgccttcg 240
gtgcgacca	tatggaagag tgtaacagat gctgtcattg ccccgttgtg ttcaagtgtg 300
ggacgcagct	tctcttctgt cagcttgcaa gtgagtcacg actgagcact tggacccca 359

<210> 161
 <211> 350
 <212> DNA
 <213> Canis familiaris

<400> 161	
ttcttcaaag	gagacaagca ctgggtgttt gatgaagctt ctctggaacc tggctacccc 60
aagcacatca	aggagctggg ccgaggactg cctactgaca aaatcgatgc tgctctcttc 120
tggtgcccc	atggaaagac ctacttcttc cggggaaaca agtattaccg tttcaacgag 180
gaactcaggg	cagtggacag cgagtacccc aaaaacatca aggtctggga aggaatccct 240
gagtctccca	gagggtcatt catgggcagt gatgaagtct tcaacttact ctacaagggg 300
aacaaatact	ggaaattcaa caaccagaag ctgaaggtag agccaggcta 350

<210> 162
 <211> 471
 <212> DNA
 <213> Canis familiaris

<400> 162

gattctccaa	gggcaaggga	cgccgggtgc	agggccctt	cttatcaccg	agcacgtggc	60
ctgcgctgcc	ccgcaagctg	gactccgcct	ttgaggacgg	gctcaccaag	aagactttct	120
tcttctctgg	gcgccaagtg	tgggtgtaca	caggcacgtc	ggtggtaggc	ccgaggcgtc	180
tggacaagct	gggcctgggc	ccggagggtta	cccaagtcac	cggcgccctc	ccgcaagcgg	240
ggggtaagg	gctgctgttc	agcaggcagc	gcttctggag	tttcgacgtg	aagacgcaga	300
ccgtggatcc	caggagcgcc	ggctcggtag	aacagatgta	ccccggggtg	cccttgaaca	360
cgcattgacat	cttcagctac	caagagaaa	cctacttctg	ccaggaccgc	ttctactggc	420
gtgtgaattc	tcggaatgag	gtgaaccagg	tggacgaagt	gggctacgtg	a	471

<210> 163
 <211> 498
 <212> DNA
 <213> Canis familiaris

<400> 163						
gtggcccaca	ttgtgaaaac	tcagaaatca	ttgtaaagct	tttcaatgga	aatgagggtg	60
gcctggaccc	caaggaaaaa	tgggtacaaa	aggttgtgca	gatatttcta	aagaaggctg	120
agaaacaaga	tccgtgaaa	aacaaacaca	ttctctgtgg	tttccaagaa	ttcctcagga	180
aagatgccaa	tcgagactta	aaaaaatcta	tttcagtact	tcattgtccc	tgtagacctg	240
gtgtaggatt	gccagataaa	aatacagtat	gcccagttag	atttgaatat	taagtaaaac	300
aatgaatagt	ttttttctaa	agtctcatat	atgttgcctt	attcaatgtc	taggcacact	360
tacattaaac	atattattca	ttgtttgctg	taaattcaaa	tgtagctgga	aatcctggat	420
atattttgtt	gttggttacat	ctttccacct	cacctacagg	ccaggatgca	tgagtccctt	480
ttcaaccttg	ccttggtc					498

<210> 164
 <211> 482
 <212> DNA
 <213> Canis familiaris

<400> 164						
caatgacatg	actccagagc	aaatggctac	aaatgtgaac	tggtccagcc	ctgagcgaca	60
tacaagaagt	tatgattaca	tgggaaggag	ggatataaga	gtgagaagac	tcttctgtcg	120
aacacagtgg	tatctgagga	ttgataaacg	aggcaaagtc	aaagggaccc	aagagatgaa	180
ggaacgttac	aatatcatgg	aaatcaggag	agtggcagtt	ggaatagtgg	caatcaaagg	240
ggtaggaagt	gaatattatc	ttgcaatgaa	taaggaagga	aagctctatg	caaagaaaga	300
atgcaatgaa	gattgcaact	tcaaagaatt	aattctggaa	aaccattaca	acacatatgc	360
atcagctaaa	tggacacaca	gcggaggaga	aatgtttgtt	gctttaaatc	aaaagggggg	420
tcctgtaagg	gggaaaaaaa	cgaagaaaga	acaaaaaaca	gcccactttc	ttcctatggc	480
aa						482

<210> 165
 <211> 505
 <212> DNA
 <213> Canis familiaris

<400> 165						
gattgaaaat	ggagccttcc	agggaaatgaa	gaagctctcc	tatatccgca	ttgctgatac	60
caatataact	accatccctc	aaggtcttcc	tccttccctt	actgaattac	atcttgaagg	120
caacaaaatc	accaaggttg	atgcatctag	cctgaaaagg	ctgaataatt	tggctaagtt	180
gggactgagt	tttaacagca	tctccgctgt	tgacaatggc	actctagcca	acactcctca	240
tctgagggag	cttcacttgg	acaacaataa	gtcatcaga	gtacccgggtg	ggctggcgga	300
gcataagtac	atccaggttg	tctaccttca	taacaacaat	atatctgcag	tcggatctaa	360
tgacttctgc	ccacctggat	acaacaccaa	aaaggcttct	tattcaggtg	tgagcctttt	420
cagcaaccca	gtgcagtact	gggagatcca	gccatccacc	ttccggtgtg	tctacgtgcg	480
ctctgccatc	cagcttggaa	attat				505

<210> 166
 <211> 508
 <212> DNA
 <213> Canis familiaris

<400> 166	
ctggggatct cagctgcagg attttctacc tgtcccatcc ttacaagaaa agggaaagga	60
gcagtggcat ttgatagaga agaagaatgg attaaggaaa gacttcttcg tatcctgcat	120
atcatgcaaa ttcattgttac acaaaatcta aatcgctttg attatatttg aatttttagg	180
taaggaaactc tcaatagtgg gggaccaact taaagcataa ctaataggta gttaatgggg	240
taattctgct tcttctatgt ttctactatg tattcagtga cctagatttg tgctgggtca	300
gagcattcag atatagtcag cttctctatc acactacatc ttctccttg tcagcctagc	360
tcagctttcc ctagaacttt ccaactgctct acatcgctgct gacacagaga tgcctaaagg	420
cagctctagg gtagtgcttt tgtatggttt agtcaagctc tgaaatcttg ggcaaaaagg	480
tgaggagagg gcaaggagag gaaaggat	508

<210> 167
 <211> 489
 <212> DNA
 <213> Canis familiaris

<220>

<221> misc_feature
 <222> (1)...(489)
 <223> n = A, T, C or G

<400> 167	
gacccttcct gctcctcatg gccacccac tggagagggc ccagcacctg cacagctccc	60
ggcagcgccg ggccctggac accaactact gcttcagctc cacggagaag aactgctgcg	120
tccggcagct ctacattgac ttccgcaagg atctgggctg gaagtggatc catgagcca	180
agggttacca cgtaacttc tgcttggggc cctgccccta catttgagc ctggacacgc	240
agtacagcaa ggtcctggcc ctgtacaacc agcacaacc gggcgctcg ggcgcgcgt	300
gctgcgtgcc gcaggcgctg gagccactgc ccatcggtga ctacgtgggc cgcaagcca	360
aggtggagca gctgtcgaac atgatcgctg gctcctgcaa gtgcagctga ggccccgcc	420
cgtccggcag gcccgccca ccggcaggnc cgccccgcc cccgcccgt gcgcgggct	480
gtatttaag	489

<210> 168
 <211> 488
 <212> DNA
 <213> Canis familiaris

<400> 168	
gacacgtcct tcatgttcca gaggggtgctg gtgtcgctgt cggccggtgg cagggatgaa	60
ggaaattttc tggacgatgc tctcatgaga caggatgctc aggacctgta tgaggctgga	120
gagaagaaat ggggaacaga tgaggtgaaa tttctgactg ttctctgctc ccggaaccga	180
aatcacctgt tgcatgtgtt tgatgaatac aaaaggatat cacagaagga tattgagcag	240
ggtattaaat ctgaaacatc cggtagcttt gaagatgctc tgctggccat agtaaagtgc	300
atgaggaaca aatctgcata ctttgctgaa aggcctttata aatctatgaa gggcttggga	360
acagatgata acaccctcat cagggttatg gtgtctcgag cggagatcga tatgatggac	420
atccgggaga gcttcaagag gctttacgga aagtctctgt actccttcac caagggtgac	480
acatctgg	488

<210> 169
 <211> 224
 <212> DNA

<213> Canis familiaris

<400> 169

gttggagcag	gtggtggttg	gaaaagcgca	ctgacaatcc	agctaattcca	gaaccacttt	60
gtagatgaat	atgatccac	catagaggat	tcttaccgaa	aacaggtggt	tatagacggt	120
gaaacctgtc	tgttgacat	actggatata	gctggccaag	aagagtacag	tgccatgaga	180
gaccaatata	tgaggacagg	cgaaggcttc	ctctgtgtat	ttgc		224

<210> 170

<211> 228

<212> DNA

<213> Canis familiaris

<400> 170

gtagttggag	ctggtggcgt	aggcaagagt	gccttgacga	tacagctaata	tcagaatcac	60
tttgtggatg	aatatgatcc	tacaatagag	gattcctaca	ggaaacaagt	agtaattgat	120
ggagaaacct	gtctcttgga	tattctcgac	acagcaggtc	aagaggagta	cagtgcattg	180
agggaccagt	acatgaggac	tggggagggc	tttctttgtg	tatttgcc		228

<210> 171

<211> 506

<212> DNA

<213> Canis familiaris

<400> 171

ctggtgaccc	atcttatggg	agcagatctg	aacaacattg	tgaaatgtca	gaagcttacg	60
gatgaccatg	ttcagttcct	tatctaccaa	attctccgag	gtctcaagta	tatacattca	120
gctgacataa	ttcacaggga	cctaaaacct	agcaatctag	ctgtgaatga	agactgtgag	180
ctgaagatcc	tggacttttg	actggcccca	catacagatg	atgaaatgac	aggctatgtg	240
gctaccaggt	ggtacagggc	tcctgagata	atgctgaact	ggatgcatta	caaccagaca	300
gttgatattt	ggtcagtggg	atgcataatg	gccgaactgt	tgactggaag	aacgttggtt	360
cctggtacag	accatattga	tcagttgaag	ctcattttaa	gactcgttgg	aaccccaggg	420
gctgatcttt	tgaagaaaat	ctcctcagag	tctgcaagaa	actacattca	gtctttgacc	480
cagatgccga	agatgaactt	tgcaaa				506

<210> 172

<211> 50

<212> DNA

<213> Canis familiaris

<400> 172

ccggctcctc	agcaggggcc	cgaggataca	taaaccagtt	tggtggctcc		50
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<210> 173

<211> 50

<212> DNA

<213> Canis familiaris

<400> 173

aactcaaata	aacatcaaaa	gcctgacatc	ccctggtcag	gtggtgagcc		50
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<210> 174

<211> 50

<212> DNA

<213> Canis familiaris

<400> 174

ccagtgaaca tccaacctcc attaaaggaa agtctccaga atttctttgc 50

<210> 175
 <211> 50
 <212> DNA
 <213> Canis familiaris

<400> 175
 tatctctgcc tctctctgtg tgtgtgtctc tcatgaataa ataaaaatctt 50

<210> 176
 <211> 50
 <212> DNA
 <213> Canis familiaris

<400> 176
 gtgacacaga atgagaaact cttaactctg ggaaatgtac aagggatagt 50

<210> 177
 <211> 22
 <212> DNA
 <213> Canis familiaris

<400> 177
 aactgaacca aattgcactg aa 22

<210> 178
 <211> 19
 <212> DNA
 <213> Canis familiaris

<400> 178
 ccatgtagcg actttcccg 19

<210> 179
 <211> 262
 <212> DNA
 <213> Canis familiaris

<400> 179
 cgcgtctaga aactgaacca aattgcactg aagttttgaa atacctttgt agttactcaa 60
 gcagttactc cccacactga tgcaaggatt acagaaactg atgtcaaggg gctgagtga 120
 ttcaactaca gattccgggg gcccgagct agatgacttt gcagatggaa agaggtgaaa 180
 atgaagaagg aagctatgtt gaaacaaata caagtcaaaa ggaacaaaaa ttacaaagaa 240
 qcatgcagga agaagcttgg cc 262

<210> 180
 <211> 20
 <212> DNA
 <213> Canis familiaris

<400> 180
 aacaacctga acgtcaccga 20

<210> 181
 <211> 24
 <212> DNA

<213> Canis familiaris

<400> 181

tctcccagtt gattacattc caaa

24

<210> 182

<211> 477

<212> DNA

<213> Canis familiaris

<400> 182

gcgcgaattc	aacaacctga	acgtcaccga	ggagaagtat	ctggaggcgc	tggagaaggg	60
tgacattaca	gctcagatag	ctcttcagcc	tgggctcaag	ttcaatggag	gaggtcatat	120
caatcattcc	atcttctgga	caaacctgag	ccctaagggt	ggtggagaac	caaaagggga	180
attgctggaa	gccatcaaac	gtgattttgg	ttccttcgac	aaatttaagg	agaagttgac	240
cactatatcc	gtcgggtgtcc	aaggctcagg	ttggggttgg	cttggtttca	ataaggagca	300
gggacgcttg	cagattgctg	cttgttttaa	ccaggatccc	ctgcaaggaa	caacaggtct	360
tattccacta	ctggggatcg	atgtgtggga	gcatgcttat	taccttcagt	ataaaaaatgt	420
cagaccggat	tatctaaaag	ctatttgga	tgtaatcaac	tgggagaaag	cttggcc	477

<210> 183

<211> 20

<212> DNA

<213> Canis familiaris

<400> 183

gaaagtcagg ctgtggttga

20

<210> 184

<211> 20

<212> DNA

<213> Canis familiaris

<400> 184

tggcagccaa attctcattc

20

<210> 185

<211> 513

<212> DNA

<213> Canis familiaris

<400> 185

cgcgggatcc	gaaagtcagg	ctgtggttga	caccctcccc	gcagtcagca	ctggggctcc	60
tccatcttcg	gtggcagctg	ctgcagcaac	tacaacagcg	tcaacaacca	cagcgagtcc	120
tggaggacat	ccccttgaat	ttttacggaa	tcagcctcaa	tttcaacaga	tgagacaaat	180
tattcaacag	aatccttccc	tgctcccagc	attgctacaa	cagataggtc	gagaaaaatcc	240
tcaattactg	cagcaaatta	gccagcacca	ggagcatttt	attcagatgt	taaatgaacc	300
agttcaagaa	gctggtggtc	aaggaggagg	gggtggagggt	ggcagtgagg	gaattgcaga	360
agccggaagt	ggatcatatga	actacattca	agtaacacct	caggaaaaag	aagctataga	420
aaggttaaag	gcactaggat	ttcctgaagg	acttggtgata	caagcgtata	ttgcttgtga	480
gaagaatgag	aatttggtctg	ccaaagcttg	gcc			513

<210> 186

<211> 20

<212> DNA

<213> Canis familiaris

<400> 186
 gataacgcgg ataccttggc 20

<210> 187
 <211> 22
 <212> DNA
 <213> Canis familiaris

<400> 187
 agtgtcccat atccgcaatt tt 22

<210> 188
 <211> 412
 <212> DNA
 <213> Canis familiaris

<400> 188
 gcgcggatcc gataacgcgg ataccttggc gctgggtatct gaagcaccaa gaacaggagt 60
 acagctgtgt agtaaagatg ccttctgggtg aatttgcaag tatatgccga gatctcagcc 120
 atattggaga tgctgttgta atttcctgtg caaaagacgg agtgaaattt tctgcgagtg 180
 gagaacttgg aaatggaaac attaaattgt cacggacaag taatgtcgat aaagaggagg 240
 aagctgttac catagagatg aatgaaccag ttcaactaac ttttgcactg aggtacctga 300
 acttctttac aaaagccact ccactctctt caacgggtgac actcagtatg tctgcagatg 360
 tacccttggc tgtagagtat aaaattgcgg atatgggaca ctaagcttgg cc 412

<210> 189
 <211> 19
 <212> DNA
 <213> Canis familiaris

<400> 189
 ctgtggtgtc tctgcgctt 19

<210> 190
 <211> 24
 <212> DNA
 <213> Canis familiaris

<400> 190
 tttcagctgt agattccttt gctg 24

<210> 191
 <211> 521
 <212> DNA
 <213> Canis familiaris

<400> 191
 cgcgggatcc ctgtggtgtc tcagcgctg acagagtctc cgtgtgctct ggtggccagc 60
 cagtatggat ggtctggcaa catggagaga atcatgaaag ctcaagcata ccagacgggc 120
 aaagacatct ctacaaatta ctatgccagc caaaagaaaa catttgaaat taatcccaga 180
 catcccctga tcaaagacat gcttcgacga gttaaggaag atgaggatga caaaacggta 240
 tcggatcttg ctgtggtttt gtttgagaca gcaacgctga gatcaggcta tctgctacca 300
 gacactaaag catatggaga tgaatagaa agaatgcttc gcctcagttt aaacattgac 360
 cctgatgcaa aggtggaaga agaaccagaa gaagaacccg aagagacaac cgaggacacc 420
 acagaagaca cagagcagga cgatgaagaa gaaatggatg caggaacaga cgacgaagaa 480
 caagaaacag caaaggaatc tacagctgaa aaagcttggc c 521

<210> 192
 <211> 20
 <212> DNA
 <213> Canis familiaris

<400> 192
 cagagaagcc caagctccac 20

<210> 193
 <211> 20
 <212> DNA
 <213> Canis familiaris

<400> 193
 accagatgaa tgtcagcccg 20

<210> 194
 <211> 498
 <212> DNA
 <213> Canis familiaris

<400> 194
 cgcgggatcc cagagaagcc caagctccac tacttcaatg gacgaggcag aatggagtcc 60
 atccggtggc tcctggcttc agctggagta gagtttgaag agaaatttat aaatgctcca 120
 gaagacttgg ataaattaaa aaatgatgga agtctgatgt tccagcaagt gccaatggtg 180
 gaaattgatg gaatgaagct ggtacagacc agagccattc tcaactacat tgccaccaaa 240
 tacaacctct atgggaaaaga cataaaggag agagctctga tagatatgta cacagaaggt 300
 atagtagatt tgaatgaaat gatcatggtt ttgcctctat gccacactga tcaaaaagat 360
 gccaagatta ctctgatcag agagagaaca acagatcggt atctccccgt gtttgaaaaa 420
 gtgttaaaga gccatggaca agactacctt gttggcaaca agctgagccg ggctgacatt 480
 catctggtct cgagggcc 498

<210> 195
 <211> 27
 <212> DNA
 <213> Canis familiaris

<400> 195
 gtccgtggca gagtccctca gctctat 27

<210> 196
 <211> 27
 <212> DNA
 <213> Canis familiaris

<400> 196
 caccgtgatg ccacatagct atcttcg 27

<210> 197
 <211> 509
 <212> DNA
 <213> Canis familiaris

<400> 197
 gtccgtggca gagtccctca gctctataga ctctctcacc acagaggctg accaggacta 60
 cgactatctg acagactggg aaccccgtt taaagtcttg gcagacatgt ttggggaaga 120
 agagagttat aaccctgata aagtcactta gggcagaagc caaggataaa acacaaccaa 180

aaggagaaat	ttaaaagaaa	cacaaataga	aatctctctc	tctcacacac	acacacatgc	240
atacatgcac	gtgcacacac	agacacacag	acacacacac	caggctttgt	aggacacaat	300
catttgatga	tctggtttct	agcaagttgc	tgtagtattc	atattgtcaa	gttttgtttt	360
actctgccaa	cacaagataa	atcctattac	atgtacttgc	ttggttttgt	tttgttcttt	420
tggatacaca	ctgagacaag	ctcaggccta	ttaaatacaa	tttactgaca	tgacaacata	480
gaacgaagat	agctattggc	atcacggtg				509

<210> 198
 <211> 23
 <212> DNA
 <213> Canis familiaris

<400> 198		23
ggagcctgat	gccatcaagc	ctg

<210> 199
 <211> 23
 <212> DNA
 <213> Canis familiaris

<400> 199		23
ggtttgcagc	ctatgccaaa	gcc

<210> 200
 <211> 473
 <212> DNA
 <213> Canis familiaris

<220>

<221> misc_feature
 <222> (1)...(473)
 <223> n = A, T, C or G

<400> 200		60
ggagcctgat	gccatcaagc	ctgtaggaat
cgaaccccag	taccgggncc	gatctgcagc
taatgagggc	cttaaagctg	ctgacaatga
agtctttgac	tacgaaggca	gtggctctac
aagtagtggt	ggcgagcagg	actatgacta
acttgctgac	atgtatggtg	gaggtgatga
acaagtacaa	acaatttcaa	ctgatattcc
ttgtagtcta	ctagcacagt	gcttgctgga
		ggctttggca
		taggctgcaa
		acc
		473

<210> 201
 <211> 24
 <212> DNA
 <213> Canis familiaris

<400> 201		24
tcatggatgg	gggatctttg	gatg

<210> 202
 <211> 24
 <212> DNA
 <213> Canis familiaris

<400> 202
 ggggtggccca tcaattcttc aggt 24

 <210> 203
 <211> 466
 <212> DNA
 <213> Canis familiaris

 <400> 203
 ggggtggccca tcaattcttc aggtgctggt ctttctttcg gttgttttcg catgcactga 60
 gtgatgaaat gtacaaatgg ctcgagagac tctccaaccg gaaggacggg cgaatcctca 120
 tcaacaatgc actgcagaag ctggagaggg tccatgaaag agattcctaa actccggaca 180
 tcagaatgga ttccatactg ctcccctgaa attctttcag gcgccatata agcatttggt 240
 ccaacatacg tcttggtat agaattcacc agctgagtgc taactccaaa atcgcacagc 300
 ttgacctgtc ctcttggtt tactagcgta ttggagggt tcacatctct atgtaaaatc 360
 tttaaactcc acaagtaggt aaggccttta acaactgcta ttgcaattct tccaaggaca 420
 tgctctggaa tttttctata tacatccaaa gatccccat ccatga 466

 <210> 204
 <211> 22
 <212> DNA
 <213> Canis familiaris

 <400> 204
 gcagcagcct gtgtatgcca cc 22

 <210> 205
 <211> 23
 <212> DNA
 <213> Canis familiaris

 <400> 205
 aagccggaag cgatctcatc gaa 23

 <210> 206
 <211> 492
 <212> DNA
 <213> Canis familiaris

 <400> 206
 aagccggaag cgatctcatc gaaggctcgg cctttggtct caggaacttt gaagtaggtg 60
 aagatgaaga acagaaccag gagcacggtg aagatgatga agacgtacgg accacacagt 120
 tgctctacat actggaagca catgccaca atgaaatttg aggtccagtt ggagaagcca 180
 gcaacagcaa tggcagctgg gcgaggacc tggctgagga gttcagccac aatgaaccat 240
 gggatggggc cagggccac ttcaaagaag gccacaaagc caaagatggc cacgatgctg 300
 agatacgaca tccagggcag ttgttccagc agcgccagcg cgatgggtcat gagcacggca 360
 cagcccgccca tgccagccag gcctatgagg tgcagggtcc gccggccggc gcgttccacc 420
 acgaacagcg acaccaggt gaaggccgtg ttcacgatgc cggagccgat ggtggcatac 480
 acaggctgct gc 492

 <210> 207
 <211> 23
 <212> DNA
 <213> Canis familiaris

 <400> 207
 cgccgatgag tacgaccagc ctt 23

<210> 208
 <211> 23
 <212> DNA
 <213> Canis familiaris

<400> 208
 gctcagcccc tttgatgggt agc 23

<210> 209
 <211> 494
 <212> DNA
 <213> Canis familiaris

<400> 209
 cgccgatgag tacgaccagc cttgggagtg gaaccgggtc accatcccag ctctggcagc 60
 ccagtttaat ggcaacgaga aacggcaatc atccccctct ccttcccggg accggcgggcg 120
 ccagcttcga gtccttgag ggggcttcaa gccattaag catgggagcc ctgagttctg 180
 tgggatcttg ggagaaagag tggatcctgc tgtcccgtg gaaaagcaaa tctggtatca 240
 cggagccatc agcagaggag atgctgagaa ccttctgctg ctctgcaagg agtgcagcta 300
 ccttgtccgg aacagccaga caagcaagca cgactattcc ctctctttga agagcaacca 360
 gggctttatg cacatgaaac tggccaaaac caaagagaag tatgttctgg gtcagaacag 420
 cccccggttc gacagtgtcc cagaagtcac ccactactat accaccagaa agctacccat 480
 caaaggggct gagc 494

<210> 210
 <211> 23
 <212> DNA
 <213> Canis familiaris

<400> 210
 tgcagatcac cgaccagggtg tcc 23

<210> 211
 <211> 26
 <212> DNA
 <213> Canis familiaris

<400> 211
 catatcgagg atgagagttt cgatgg 26

<210> 212
 <211> 492
 <212> DNA
 <213> Canis familiaris

<400> 212
 tgcagatcac ccgaccagggt gtccctgctt cgcctcacct ggagcgagct gtttgtgctg 60
 aatgcagcac agtgctccat gcccctccac gtgcgccgc tcctggccgc cgcaggccta 120
 cagcctcac ccattgcccgc cgaccagggt gtgccttta tggaccacat acggatcttc 180
 caagagcaag tggagaagct caaagcgctg cagctcgact ccgccagta cagctgtctc 240
 aaggccatag tcctgttcac ctcagatgcc tgtggtctct ctgatgtagc ccatgtggaa 300
 agcttgcagg aaaagtccca gtgtgctttg gaagaatacg ttaggagcca gtacccaac 360
 caaccaacac gattcggaaa gcttttactt cgcctccctt ccctccgcac ggtctcctcc 420
 tcagtcatag agcaattgtt tttcgtccgt ttggtaggta aaaccccat cgaaactctc 480
 atccgcgata tg 492

<210> 213
 <211> 160
 <212> DNA
 <213> Canis familiaris

 <220>

 <221> misc_feature
 <222> (1)...(160)
 <223> n = A, T, C or G

 <400> 213
 gactgagacc atttattcna gacacgcagc tgaccaagga gtgagggagg gaccaggtgt 60
 gcaagctaataaatagagga gggggagact tcctggagct gtagccattc agtcttcatt 120
 cttctcaggc atgaaggcat ctcttttctg accaaagctt 160

 <210> 214
 <211> 128
 <212> DNA
 <213> Canis familiaris

 <400> 214
 aagcttttgt cagcaattat attagtttgc attttagtga caggtgtaag agaaaggccc 60
 cttcttcct tactgggaca aatctagaaa tcttacacag atgtgcaaataagctcgcg 120
 tgggtgttc 128

 <210> 215
 <211> 125
 <212> DNA
 <213> Homo sapiens

 <400> 215
 gcaaagttac aaatttattg gtctggaaat aaatacaaat atctgattaa gaaacttctc 60
 tggaaagact tgtacacaac agttttcctg tctcgattca gccactcctg cctgaccaa 120
 agctt 125

 <210> 216
 <211> 116
 <212> DNA
 <213> Canis familiaris

 <400> 216
 gagcagcagt gagcaaaacc cacgaagttg ttttaagggt acagctatga ataaacattg 60
 tccaaacaat gaagatttag ggctgaagaa cgagcgtatg tctacagtcg aagctt 116

 <210> 217
 <211> 248
 <212> DNA
 <213> Canis familiaris

 <400> 217
 caggtgcaag aggtttgttt gggaggtaat cctagaaacc acagaagggg gtggggatag 60
 gagggatggc aggaaaacca gtaagaactg tgttattgag aaggttatca ctgtggacaa 120
 ctggcacaga atacacttca gagctgtcgc cctgagggac aatgacgcca aggtcttttt 180
 ctctaagtcc tgtttcttat aggccgaggg tggctcctgg gagcagtaac tgccaacagt 240
 cgaagctt 248

<210> 218
 <211> 231
 <212> DNA
 <213> Canis familiaris

<400> 218	
aagcttgatt gcccatacct gagccattga tatatttgaa aattatggca caaatggaag	60
agaaccacat ttgaaaagct tccagccttt caacagaaga taactcttct tgttttgag	120
attgagcaga taatttcttt tgaaggtgat agtttcctaa attggataaa accgtggctg	180
ccattatatt cacagaaaat aaaatgaaaa cttcagttaa ttgtggattt g	231

<210> 219
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 219	
caatattctt aagagtttat tataaactag tttcacaggc tacaaggaag tatttaggac	60
tatgtacagc ctgacgggaa acaggcaggg agctgaggag ggccaagatg agtctagggc	120
cttggtgggc gcattcccgg gggagggggc cctgaaaggg aaaccagaca atcctgtgag	180
actccaagaa caacggcata acaaacaaac acgtctgtgg caatcaagct t	231

<210> 220
 <211> 180
 <212> DNA
 <213> Canis familiaris

<400> 220	
agtagatggg accgagaata attttagggt taagggatag gaggagtagg ggcagtaggt	60
gcaaggtcat tagggcattt tctcgtgtga atgatgggtt gatatttttg atatgggtggg	120
aatattttacc acgttgtgtg gtgattaata tataaagtga gtatagggcg gtaaaagctt	180

<210> 221
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 221	
actaagaaat atttattgag cacctgctgt gtaccagca ctgcgggagg ggctgtgaga	60
gaccagggc agtacaggac ttgttcttgc cttcagagg cttatagtct aggtggaaac	120
aggagaacca ggacacatga ggagccagga gaaaacagta caggccagga tgttacagga	180
gcttacagtg tttgggggtca gaccactaa gtgcttcagt acctctaggg gctcaatggt	240
cagggccaga agagacaata actcacaact agcccatgta gcatgcccta tccacagcgt	300
ctacctctgc tatcttaaaa catctgactc ctggttaagc tt	342

<210> 222
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 222	
caaagaattt tgttttatta tagtacatga gctggactga tgggaaaggg taggtgtatg	60
ggcaaccact gccagatta gcatcgatg cccatcccga tggccatgaa tgtgccaaat	120
gtgcggccac tctgcatcat ggttttcccg atgcgcccc ttagctccc accccgcatt	180
ccgatcctga gacaggaaaa ggtgccgaag agcgcgccg cgcgcatgcc cactgcacaa	240
cccatcacia agcccatctt cagcggttaa aagctt	276

<210> 223
 <211> 239
 <212> DNA
 <213> Canis familiaris

<400> 223
 catatatatt ctttttttatt tcttggtata ctttcccaa acagagacat tcaacagtag 60
 ttagaatggc catctcccaa catttttaaa aaactgcacc cccaatggg tgaacaaagt 120
 aaagagtagt aacctagagt tcagctgagt aagccactgt ggagccttaa gtggtgaggt 180
 cttccaattt cagagtgatg tgtcttcaac ttgtatcatc attttagcgg taaaagctt 239

<210> 224
 <211> 142
 <212> DNA
 <213> Canis familiaris

<400> 224
 ccaaagaagt gtttattaac atttggggcc tcagcggggc cagagaggaa gtgggtgcta 60
 gaggtcctg aggtcaggg caaggcctgc aagacagatc ccattgctca ggaggcagcc 120
 cagattgcaa atggaagaca gg 142

<210> 225
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 225
 aagcttttac cgcaatgagg gatttatata tgaaaaatgg acaaggcttt gcattagttt 60
 actccatcac agcacagtct acatttaatg atttacaaga tctgagagag cagattcttc 120
 gagttaaga cactgatgat gtaagctgac ttctaataa atatatttta cttg 174

<210> 226
 <211> 213
 <212> DNA
 <213> Bos taurus

<400> 226
 aagcttaacg aggacaggcc atcagggctg ccaaggaagc aaaaaggct aaacaagcat 60
 ctaaaaagac agcaatggct gctgctaagg ctcccacaaa ggcagcacat aagcaaaaga 120
 ttgtgaagcc tgtgaaggtt tccgcacccc gagttggtga aaaacgctaa gtttttagtgg 180
 atcagatttt taaataaaca tctgactcta act 213

<210> 227
 <211> 146
 <212> DNA
 <213> Rattus norvegicus

<220>

<221> misc_feature
 <222> (1) ... (146)
 <223> n = A, T, C or G

<400> 227
 catggagcng ttttatacct ttatttgaca atcagcgatt agttctcatc cacattaaca 60
 gtctgtagat ttttgaaagt ggtgacaggt acgtaggtaa ccagcgtgta gagcttggtt 120
 ggtgaatctt catctcgtt aagctt 146

<210> 228
 <211> 138
 <212> DNA
 <213> Canis familiaris

<400> 228	
caatggtgtc actgggctcg acctcaaggg tgatagtttt gcccgtcagg gtcttcacaa	60
agatctgcat ctctgcgtct gctggagcga actcgcaagg ccgccgccac caaacccgctc	120
gcccacctcg ttaagctt	138

<210> 229
 <211> 220
 <212> DNA
 <213> Canis familiaris

<400> 229	
aagcttgcac catatatata actcttgggc agagggctctg gcatacataa gtagatactc	60
agaaatatct gttggattgt gttgatttaa ttatttttgt gttgcttctt ttaaagatga	120
gcactttcta ttagatatatt ttttgatcaa aaaaaagata tttttttgat catcacagatt	180
taagcaggat ttttattaat tcgtttctct tcctgggttg	220

<210> 230
 <211> 238
 <212> DNA
 <213> Canis familiaris

<400> 230	
catgagagag acggaaagag aggcagagac acaggcagag agagaagcag gctccatgca	60
gggagcctga cgagggactc gatcccaaga ctccaagatc gtaccctggg ccaaaggcag	120
gagcttaacc gctgagccac ccaggtgtcc caactgtcag gggttttaaaa gagtgagtga	180
aatttgggga aatatcaagg cacagtcata ttcataaaca taatacgttg agaagctt	238

<210> 231
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 231	
aagctttctca acgtatatgg tgtacagttt ttgtaagggt ttaattttac aatcattctg	60
aatagttatg gtcaagtaca aattatggta tctattactt tttaaattgg ttttaatttgt	120
atatcttttg tacatgtaac tatcttagtt atttggctaa ttttaagtgg ttttggttaa	180
gtattaatga tgccacctgt cagcacaata agagtaagaa ctaataaatg gatttgg	237

<210> 232
 <211> 204
 <212> DNA
 <213> Homo sapiens

<400> 232	
aagctttctca acgtatttcaa gagaaaactt ctaaattgcc agatatgtta aaagaccatt	60
atccatgtgt gtcttctactg gagcagttaa cagagttggg aggtgaaact gatgtttttg	120
tatgccgtcc taacacagcc ctatgccga tgtactcaga gactggaaca gcacaagaga	180
aataaagcaa caatcagtaa tggg	204

<210> 233
 <211> 572

<212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(572)
 <223> n = A, T, C or G

<400> 233
 aagcttttggc caggcaggaa taggaatgag taatttgggc tttgaaatct ctcccagaag 60
 acaaaactact tcgatgggaa aaagcttttga catttttgtgt tttatttgta gaggggggta 120
 ttggatacag aggagcctgg tctcatacat tttcatcttc agtctgaaaa gatctgtaat 180
 tctgtagacc ctgaagcggg ggaacttttc tttctgccat ctccctttgc tttcatatga 240
 acacctcttc tgtaccaatc atttggaata gaagtgaaca tatctcttgc tttaaaagtt 300
 ttgcttgncg ggtagcatt ccttttgagc tcaacatata tggaacaata aatgtcattt 360
 aatgctgngn gctattttga attcctcacc aggtttttaga agtgggggtca agaacactta 420
 aaagctcatt ggacttttga attatnccag ccgcctttga ccattatctg gcccancaaa 480
 gcagggttaaa ttatggcncc ngcaaatttg cttttttttt taatagnngg angnntacnt 540
 ttcagnttaa taaatgtttt ccgatgggtt gc 572

<210> 234
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 234
 ggtcaaagtg tatagttttg acttaccctt cccagatcct gaatgtcctt ttggagtttt 60
 tcagatacgg tgacagaagg taagtcaatg taaaatattt ttccccagag tggcttatat 120
 ttgtattttt ctggtttggt atcagttttc atagatttca tagatctggt tttttcattt 180
 ttgacttgga ttccacctgt tgtttaaaaa aagtagaatc agatcatgat ttatgtggac 240
 agaaaatttc tcttttaaaa atacttttta tacagtcacc atttcataga gggggaaaaa 300
 atctttataa taccaccaat taaacactca atagcatttt actgtatttc ttctgtatgt 360
 cacttaggat aaaaccagaa taccatattt gttttaacag atcccatact gtaaaataat 420
 catcgttcac agcctacagt cgaagcct 448

<210> 235
 <211> 136
 <212> DNA
 <213> Canis familiaris

<400> 235
 ggggagagata aaaacactta atgtaaaatt taccctctca gaaaaatttc cagtatgcta 60
 tacggatatca ctaactatag tcactatagt atacagtaga tccctaggat ttattcatga 120
 tgtacagtcg aagcct 136

<210> 236
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 236
 aagcttgatt gccagagtta cgaaaagcat caaagcatct ttatgggtcag cttaaatttg 60
 gtacactaga ttgtacaatt catgaggagc tctgtaacat gtataacatt caggcttatc 120
 caacaatagt ggtgttcaac cagtccaacg ttcatgaata cgaaggccat cactctgctg 180
 aacagatctt ggaattcata gaggacctta tgaatccttc agtgatctcc ctgacacca 240
 ccactttcaa tgaactgggt aaacagagaa aacatgacca agtctggatg gttgatttct 300

attctccatg	gtgtcatcca	tgtcaagtcc	taatgccaga	atggaaaaga	atggccccga	360
cattaactgg	actgatcaat	gtgggcagcg	tagactgcc	acagtatcat	tctttttgtg	420
cccaagaaaa	tggtcggaga	tccctgagat	aagaatttac	cccc		465

<210> 237
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 237						
aagctttggt	cagggctctc	gttcttgccg	cgtctgttca	aaccggcacg	gtctgatccc	60
ggaaatacgg	cctcaacatg	tgccggccag	tgtttccgtc	agtacgcaa	ggatataggc	120
ttcattaagt	tggattaagt	gaacttcctt	gaatgggtca	tccaagatac	ctaccttaac	180
tgcagatgtc	caagatacct	actttgatgc	caactcattg	tatataaaat	aaaaatactc	240
caattatgag	tgttttaatg	tg				262

<210> 238
 <211> 280
 <212> DNA
 <213> Canis familiaris

<400> 238						
caagttttac	cattgtttta	attattgaaa	caaaattaac	gtaagtagaa	tcattgtgcaa	60
cagtgtctct	aacatatgga	agaggtaa	atgaatttta	tacaataagg	tatattatcc	120
actgtaacaa	atttccaata	atttggcatt	tatctttcac	aaaatgtctc	ccaaattcta	180
agcaaagtat	gcaaattgga	gattaactct	aaacaggcat	aattatcttc	ttatccagtt	240
tttctgaaga	gactgaagag	ttcagggtctg	accaaagctt			280

<210> 239
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 239						
cagatgtgat	aaaatcgttt	tcattactgt	caaaggcatc	aaccagattt	gggaatttgt	60
taaaagggtta	aaaattcata	caaaacctgc	tgtaaattaa	gacaaaggta	gattaaaatg	120
catcattatc	tgtctcttaa	ataaagtaat	gctttccata	aaaagcaaag	gtgggctttt	180
gccttgatgc	tgaccaaagc	tt				202

<210> 240
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 240						
gggaagtgtc	aaggatcagt	tccgtggcac	cctctgacca	cagactggga	gcaacacgca	60
tctgtggcat	ttaaaaatgg	aattggcaac	ttcatgacat	tggaatgcat	atcacactta	120
cagtgtctag	actttcctat	gtgtgctcag	ttacaagtag	tgaagcaaaa	gtatacatat	180
caccctact	gctattcggt	tgctacagag	ccataaatgt	gaaaagcaat	actctgaaat	240
aaagattttt	gttttttgcc	ctagcctact	aagctt			276

<210> 241
 <211> 192
 <212> DNA
 <213> Canis familiaris

<400> 241

aagcttgac	catactcctc	ctctacatat	gctcccaa	taccttctaa	aaaggtgta	60
ttaatttact	ttcaccagta	gtattatgag	agtgcccatg	tcccttagcc	ttttaaaatt	120
cactatgagc	aatcttttaa	tcatgtacta	aatcttatag	gcaaagaata	gggccttgcc	180
cctgccccctg	tt					192

<210> 242
 <211> 137
 <212> DNA
 <213> Canis familiaris

<400> 242						
attcctttttc	caaggacctc	tcttctatgt	gatcactgag	taagttcagt	cactcccatc	60
atctctagat	tggagatttc	caaatttatg	gcctttccta	actttgaagt	ccttattttct	120
aactgcctac	taagctt					137

<210> 243
 <211> 155
 <212> DNA
 <213> Homo sapiens

<400> 243						
ataaatagag	atgggggtct	tgtatgttg	ccaggctggt	cttgaacttc	tgggatcaag	60
caatctgcct	gccttggcct	cctaaagtgc	tgggattaca	ggtgtgagtc	actgtgcctg	120
gcctcatata	gtcactataa	cagcctacta	agctt			155

<210> 244
 <211> 203
 <212> DNA
 <213> Canis familiaris

<400> 244						
aagcttagta	ggcaataata	gagaagtaga	aattgaatgt	ggaacattaa	ccattaaaaa	60
tcatactttt	gaatgtgctg	aggatcatgaa	ttgtttttac	cttcttttga	atttgtgttt	120
ttcagatttt	ctgtagttag	catatattct	ataatcagaa	aaagatgctt	caagtttttt	180
gcagatttca	cagaattttg	ttt				203

<210> 245
 <211> 203
 <212> DNA
 <213> Canis familiaris

<400> 245						
aaacaaaatt	ctgtgaaatc	tgcaaaaaac	ttgaagcatc	ttttttctgat	tatagaatat	60
ctgctaacta	cagaaaatct	gaaaaacaca	aattacaaag	aagataaaaa	caattcatga	120
cctcagcaca	ttcaaaagta	tgatttttaa	tggttaatgt	tccacattca	atttctactt	180
ctctattatt	gcctactaag	ctt				203

<210> 246
 <211> 219
 <212> DNA
 <213> Canis familiaris

<400> 246						
aattgtcacg	aacagggctg	actgacactg	cagtgtgtcc	ttgtttgttg	atccctgatc	60
taggcctcgg	cttttcaaac	tgcatgtgat	caaactggga	tatgcttcgg	ctgaatctgc	120
tctctgggtgc	ttctctttta	tcgttttctc	cttaaatggg	ttactttctt	actaggaaaa	180
aaaaaatgtt	ccacctctgg	aattaacgtt	gagaagctt			219

<210> 247
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 247	
agggtcaaggt gagttttattg tccaaatagc ataacctaatt tgcattcaaa accatttttca	60
aatccatctt taaactagtc agaaaacagg ttattatttt tttaaatacac ttaacactga	120
acagataaga cctcttataaa ggcagctgac tatatcatgt caccatcata gccaatataa	180
cattttttgcc atacttctta aaaacctttt cgcatacact gatcatgcta cttatcagca	240
ctttttaaca tcttgaccaa agctt	265

<210> 248
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 248	
actaaaaataa acctgttcgg ggggaacagc tactagatga atttaagggt tttatgcacc	60
ttatagaact tatagcaaaa atagtttttag ttgatttcat tataaataac gttttcaaga	120
acctgtgcaa aactgtcaat aatttcttaa agcacaattg atcagaaaaa tccatgattg	180
ttcagccttc acacccttct tcatgtaaga acacccttct gtacatctca cagttactta	240
ttagggtgaa aggtatatgg tgaatgggtca ttagacgtct cgacagccac ctgctgctga	300
ccaaagctt	309

<210> 249
 <211> 169
 <212> DNA
 <213> Mustela sp

<400> 249	
acattaaatg cccagtgcaa gccaggaaca ttgcagaatg ctaaatttat ctgctagggtg	60
atgatattga acgatctaga caataatttc accttactta aataacaatg aacagaattc	120
ctttttttcc actctgagtg gatattttctg tcatctctga ccaaagctt	169

<210> 250
 <211> 368
 <212> DNA
 <213> Canis familiaris

<400> 250	
aagcttcgac tgtcgcatca atgaatgttt taagtaataa ctttgctggt tatcagcttg	60
atggtgcatt aatttttatgg ctcatttcct ttattttgac cattgtcgga ttcttcattt	120
tatattggac gatccccaat cgaacggtac caattttttc agctgtgatt ggggcatgtt	180
tcaacgcgac cgtttttgaa attttaaaac atttatttgg ctgggtcatg agtaatttca	240
ccagctatga aatcgtttat ggtgcttttg cagcagttcc tattttttcta ctttgatct	300
atctgtcttg gaatatcatt ttattgggtg tagaagtgag ttatgcactc accgccttcc	360
attctggt	368

<210> 251
 <211> 261
 <212> DNA
 <213> Canis familiaris

<400> 251	
agaatcaagc caccaggtgt ttattttttgc actataaata gagttcccta gtcccatttt	60

gttacataat	atatgagata	acagagaacc	taaaattcat	ttggtgaaaa	tcaagtgtgt	120
agtataccta	aataccaatg	agctagtaag	acttgtaagg	cactgaagct	aaggctaaca	180
gcaacagagt	cctttatgaa	aataatttca	gaaccacaac	gcattctctg	atgggtgcatt	240
cccctgggac	agtcgaagct	t				261

<210> 252
 <211> 193
 <212> DNA
 <213> Canis familiaris

<400> 252	
catcgcagac	atattatttta gttttgttaa tttcaaataat tcattaacct cttgtatcag 60
atttaaggca	gagaaaagat acacgcccct ggttaactga accgggggtt agatagtgtg 120
gtccaccctg	ggttccacca gggagacctc acccgagatg acaggtccgg ttgctggtgc 180
acagtcgaag	ctt 193

<210> 253
 <211> 252
 <212> DNA
 <213> Sus scrofa

<400> 253	
ccatttataaa	tgttttatatt tccttttttaa actagattgt gaagtgccac tgaaataggc 60
aatgttggca	aaacaatgtc tgttacaata aaatacatta gacattttaa taaataacct 120
taaaaactac	atgggggggac atgaaccag tgcattgaat ctggaacaat gttttctgca 180
caagcgagaa	caggcatacc tcttggttaag actgatgtaa acagaaccat cggaacccta 240
cagtcgaagc	tt 252

<210> 254
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 254	
cacgttttaa	aactttatatt gcatattaaa aaaattgtgc attccaataa ttaaaatcat 60
ttgaacaaaa	aaatggcact ctgattaaac tgcattttta cagcctgcaa gataccttgg 120
gccagcttgg	ttttttactc tagatctcac tgtcctccca cccagcttct tccttcacca 180
acatgcaagt	tcttttcctt cctgccagc cagccagaca ggcagatggg aaaggcaggc 240
gccttcgttg	tcagtagttc tccattcttt gatgtgaaaa ggggcagcac agtcatttaa 300
actcgatcca	accgctttgc atcttacaac gttaaacagc taaaagaagt aaaataagaa 360
ggcaatgctt	gtggaatgta cagtgcataat tggcggcgca cgcctcatta cgattcggct 420
actaagctt	

<210> 255
 <211> 323
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 255	
ctcattaaac	ttttgtttta atgggtctca aaattctgtg acagattttt ggtcaagttg 60
tttccattaa	aaagtactga ttttaaaaac taataactta aaactgccac acacgcacaa 120
aaaaaaaaaa	aaaaacaaat ggtccacaaa acattctcct ttccttctga aggttttacg 180
atgcattgtt	atcattagcc agtcttttac tattaactt aaatggccaa ttgacacaaa 240
cagttctgag	accgttcttc caccactgat taagactggg gtggcaggta ttagggataa 300
tattcattta	gctactaag ctt 323

<210> 256

<211> 253
 <212> DNA
 <213> Canis familiaris

<400> 256
 aagcttagta ggcacgcaat aaataggaga atgaatcaga gtccctccaac gcgtcctccc 60
 taatgtccct ttgagctgcc tctctttcca ctctgcctca gcttgtccat gtcacttcgc 120
 tccagagcag ccgcaagagc atcttaacac cttgtggcct gaactctctc ccatcctcca 180
 ctgtacagtg atatgactga aacctcattt aaccttttag aactaccagg aggaggttcc 240
 caaggatccc agg 253

<210> 257
 <211> 260
 <212> DNA
 <213> Canis familiaris

<400> 257
 cactgaatct caatcaggaa actcttaatg cacggcacaa ctgcccagat gtgcaggaaa 60
 gaaagaatgg caaagtaaata gccccatatg agtgccattg ggatgccaaa gagggcagac 120
 agcaagcggg aaaaccagta ttttgtcaca gtgaagggtg tgaagctggc cttccagatg 180
 ccatcaaaac tgtgtgttcc ttctggttct gcaatcacat cttcaaaatc aatcttgacc 240
 acgtcgtcgt tgagaagctt 260

<210> 258
 <211> 188
 <212> DNA
 <213> Canis familiaris

<400> 258
 ccatttttgc tcttaaagag catcttaagt gagagatcat gacaatcttt ggccactcca 60
 ggtttttctca tctactacat gatctgttcc caacaataag ccattgaaat taaaggcttc 120
 cagaagtttt atctggggtc tgtgattgaa aagaaggaaa atgagatgag agactgccta 180
 ctaagctt 188

<210> 259
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 259
 caagcccatc aattagtgtt ctttttatag acattacaca caacacatat atagtgcac 60
 aaacacaaga ttcaacactt gtaagatttt ttatttgcca gtttcttaat tggattactg 120
 gcatcagggt ggaaacttta gaggaagaga gccaggtagc atgcatttct agggcctact 180
 aagctt 186

<210> 260
 <211> 189
 <212> DNA
 <213> Canis familiaris

<400> 260
 ccataagaa acatctttta aacattcaga atactcagga taatcaaggc taatattcct 60
 ataaattcct tacgtgtatt atgtacattc agaaaagtgt aaattactca aatattatac 120
 tcaaaacccc ttatagtctg ctaacttgca tgtagaaaca tctgaagtaa catgctgcct 180
 actaagctt 189

<210> 261

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<211> 174
<212> DNA
<213> Canis familiaris

<400> 261
aagcttagta ggcatacaatt ggatcctttc ctatgttgaa atggaagaat taatgagctt      60
acattaatta gtattgtaat gtgtaaagga agcccagcaa aattttttga aaacttgatg      120
atcccaacgt atttaccatt gtatgttaaa gcaaaataaa tcaccatttt tttta      174

<210> 262
<211> 115
<212> DNA
<213> Canis familiaris

<400> 262
aagcttctca acggcctcca cctcctttct gccctcacag cctcctggct ctggcccaaa      60
aagtgttca tttgtaaatt atcatgggtt tctgcattaa aatggccatt tctgg      115

<210> 263
<211> 451
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<222> (0)...(0)
<223> n = A, G, T or G

<400> 263
aagctttttac cgccatcttg gctcctgtgg aggcctgctg ggaccaggac tcctaaagcg      60
acganttttt ntggaaggct ttggtccaag gccatttttg ccggctataa acggggtctc      120
cggaacaaaa gggagcacac agctcttctt aaaattgaag gtgtttacgc ccgagatgaa      180
acagaattct atttgggcaa gagatgcgct tatgtatata aagcaaaaga acaacacagt      240
cactcctggc ggcaaaccac acaaaaccag nagtcatctg gggaaaagta actctgggcc      300
catggaaaaca agtggcatgn gttccgtgcc aaattccgaa gcaatnttcc tgctaatagcc      360
attggacaca gaatccgagt gatgctgtac ccctcanagg atttaaaact aacgaanaan      420
caataaataa atgtggattt gcgntcttng g      451

<210> 264
<211> 242
<212> DNA
<213> Canis familiaris

<220>

<221> misc_feature
<222> (1)...(451)
<223> n = A, T, C or G

<400> 264
caattgggttt agttttatatt caaaattgta caaaatggcc ataagcggct ataaaaaatt      60
tcgttttctcg aacacgtgga aattcagaaa gaacaacaaa gcaggttatc atttcacagt      120
gtaatggaaa agctctctct gaggcaggaa tcacaactct tccttcttct tccccagtct      180
ctcgtgggtct ccttcccga ggcgtcgaat gaaactggta aaccccgatt ccgtccgata      240
gc      242

<210> 265

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<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (0)...(0)
<223> n = A, T, C or G

<400> 265
cgatgttgag atccagatga cacaggaaat tcttttggtta atgttacctg gctttttggt      60
ggagttggct ttgctgcagc aatattcaga ttgaaaaaaa tgggtttggg ttcactgagt      120
ttaaagggat gatgataaaa aggaggttct tcttcctctt catcccgaat catgaggctt      180
attcactatt acatcatcat cttctttact ctgtgcgata tgtttgcat tctcaagtta      240
gttcttctat agtngctcct cctgattttt tagcaacttt ctcttctatt gtgggtggag      300
gtgcacgctt ttaggtttgg cgggtaaaag ctt                                     333

<210> 266
<211> 239
<212> DNA
<213> Canis familiaris

<220>

<221> misc_feature
<222> (1)...(333)
<223> n = A, T, C or G

<400> 266
catatatatt ctttttttatt tcttggtata ccttcccaaa acagagacat tcaacagtag      60
ttagaatggc catctcccaa catttttaaaa aaactgcacc cccaatggg tgaacaaagt      120
aaagagtagt aacctagagt tcagctgagt aagccactgt ggagccttaa gtggtgaggt      180
cttccaattt cagagtgatg tgtcttcaac ttgtatcatc attttagcgg taaaagctt      239

<210> 267
<211> 123
<212> DNA
<213> Homo sapiens

<400> 267
cgccggccag aaagcgtaat attctttaaa ggaaccttaa caaaacttta cacttaataa      60
tgtaaattct accatgttcc tagtcaaaaa tttactacac agactcagta gcggtaaaag      120
ctt                                           123

<210> 268
<211> 163
<212> DNA
<213> Canis familiaris

<400> 268
ccaaagaagt gtttattaac atttggggcc tcagcggggc cagagaggaa gtgggtgcta      60
gaggtcctg aggtcaggg caaggcctgc aagacagatc ccattgctca ggaggcagcc      120
cagattgcaa atggaagaca ggccatggta gcggtaaaag ctt                                     163

<210> 269
<211> 312
<212> DNA

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<213> Homo sapiens

<400> 269

aagcttaacg	aggagacaga	ggtcattgatt	ctgagatgat	tggagacctt	caagctcgaa	60
ttacatcctt	acaagaggag	gtgaagcatc	tcaaacataa	tcttgaaaga	gtggagggag	120
aaaggaaaga	agctcaggac	ttgcttaatc	actcggaaaa	ggaaaagaat	aatttagaga	180
tagatttaaa	ctataagctt	aaatcattac	aacaacggct	agaacaagag	gtgaatgaac	240
ataaagtaac	caaagctcgt	ttaactgaca	aacatcaatc	tattgaagaa	gcaaagtctg	300
ttgcaatgtg	tg					312

<210> 270

<211> 180

<212> DNA

<213> Homo sapiens

<400> 270

aagcttaacg	aggacccaag	aagcagaagg	agaacaagcc	aggaaaaccc	cgaaaacgca	60
agaagcttga	cagtgaaggag	gaatttggct	ctgagcgaga	tgagtaccgg	gagaagtcag	120
agagtggagg	cagcgaatat	ggaactggac	caggtcggaa	acggaggcgg	aagcacaggg	180

<210> 271

<211> 174

<212> DNA

<213> Homo sapiens

<400> 271

aagcttaacg	aggcatgtga	aaattatgag	cagagaaaac	tcaagggctc	agaagagacc	60
agggatcttg	aagaaaaatt	gaaaaggaac	ttagaagaaa	acaagatctc	aaagacagaa	120
ttagattggt	tccttgaaga	cttggaaaaag	gaaatcaaga	aatggcaaca	ggag	174

<210> 272

<211> 146

<212> DNA

<213> Rattus norvegicus

<400> 272

aagcttaacg	aggatgaaga	ttcaccaaac	aagctctaca	cgctgggttac	ctacgtacct	60
gtcaccactc	tcaaaaatct	acagactggt	aatgtggatg	agaactaatc	gctgattgtc	120
aaataaaggt	ataaaactgc	tccatg				146

<210> 273

<211> 241

<212> DNA

<213> Homo sapiens

<400> 273

ctaaagggcc	agatagtagc	tgtgggctgg	ggctctcaaac	tgtgttgccc	actactcaac	60
tctgccattg	taatgtgaaa	gtagtcacag	acaaaatata	aagaaatgag	tgtgactgtg	120
ttccaataaa	actttattta	caaaagcatt	cagtgggctg	gatttggctt	ttgggccata	180
attaaatccc	ctctggtaaa	ataatcacta	ttttagctgg	atcatgagta	cgtggaagct	240
t						241

<210> 274

<211> 224

<212> DNA

<213> Homo sapiens

<400> 274
 acaggttttca tctgaataca tatttattag ataaatatta gaggttgtca catcatctaa 60
 ctacatacag ctttgcaaga ctagaaatca caattagttt tttgaccagt ttaaagtatg 120
 aaatgattgc attgtacata cgatgtacaa agacgatgat ggtttctgtg ggagttactt 180
 caggctgcac tgggtgggtgt gtttatgtgt gtacgtggaa gctt 224

<210> 275
 <211> 161
 <212> DNA
 <213> Canis familiaris

<400> 275
 gcactaaatt caaaccaatg acctcccatg ttctaattct gattgtttaa tccaactggg 60
 agggtaaacg ggagactctt tggcctgtca gtgacaaaat ggtttgtaaa aaagaaaaaa 120
 taaatacgat atacaagtaa gtataactag cactcaagct t 161

<210> 276
 <211> 158
 <212> DNA
 <213> Human sapiens

<400> 276
 ggggtgttga agagccttgt tttgtcatat taccagagtt ggttttctgg ttccttctca 60
 tttgggtagg ctctgtcaga gagaaggctt agggctgaag gctgttggtc agattctttt 120
 gtcccaagtg gtgttccctt gatgtagcac tcaagctt 158

<210> 277
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 277
 aagcttgagt gctgttgctg atgtacaact taaaaatgtg aagtttgtag ctttaacttt 60
 ttgtaataaa aactaataac actggcttaa gtgctgactt gaaatgctat tttataaagt 120
 ttggatgtaa ataataatc gaggtcagca gtttgatat gtaggagaca tagcttcttc 180
 cctgcacccc ccattttttt aaaatttgag gtgcttcctg tgtgttttta tgttagaatt 240
 gttctccctc cttctacac gtggtcacct ttgttttaaa taaactgtcc tttgg 295

<210> 278
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 278
 aagcttgagt gctgtatcct gtgctttttc tgtgggacca ttccattcag gagcaaagag 60
 caccatgatt ccaatcttgt gtgtgtttac taacccttcc ctgaggtttg tgtatgttgg 120
 atattgtggt gtttttagatc actgagtgtg cagaagagag aaattcaaac aaaatattgc 180
 tgttcttcag ttttgtttgt ggaatttgaa attactcaa tttaaaataa attactggac 240
 tgtgg 245

<210> 279
 <211> 253
 <212> DNA
 <213> Canis familiaris

<400> 279
 agcatatgta agatctctgg cttgtagaag acaagtttat atagcactta aaaaaccatt 60

tgttacatta	aatgtcgaac	tcaaactttt	aaagagtata	gagaactaca	aatggaaaa	120
aggaagcaga	tatacgcttt	atgaggaaat	tgtgttaatg	atctctcctc	taaaaaagga	180
ctcttcctta	ttatcataat	gaccacactg	cccgtcctta	aaaccactgg	tcgctgacat	240
tatgccgaag	ctt					253

<210> 280
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 280						
aacatataaa	aacattttatt	cactaggaat	aattgtggca	gacacaatcc	agtgaagca	60
gctcaatcct	gctcagttag	gctagttgaa	gaaccatact	ttaaaaaaag	aaaggaagac	120
aggcaacaa	gtgtttttaca	ggagcaacag	acttcaaggt	cacccccaca	agacaccctg	180
cacagcaggg	acgggggacag	ggaggatgac	ctcttagggc	ctgtgccttc	gcagaggtgc	240
tcggcggatg	ggtgtggtct	tcttggggtg	ctcctcttct	gtcatctatg	ccgaagctt	299

<210> 281
 <211> 222
 <212> DNA
 <213> Canis familiaris

<400> 281						
aagcttcggc	atagttactg	tttgatttta	agtttttata	tagttcttag	ttttgaagaa	60
atccttcaag	aacagtttct	ctaaagagca	tgttttaatt	aaatgcta	taattacctt	120
tcttagtttt	ccaatttagt	aggccacttt	caatgtctat	taaagtga	taaaccttct	180
gaacttaaac	attttttaaat	cgattaaaa	ttgtgtcaaa	at		222

<210> 282
 <211> 291
 <212> DNA
 <213> Canis familiaris

<400> 282						
aagctttttt	tttttcaaaa	cggatttgta	aaaactgtat	ttcttact	gtgcacaaac	60
cttttatact	aaataaatat	caaactacat	tcttcagaaa	gatgtttcta	gtatttttct	120
taggtcactt	ccatatgtag	tatgtacagt	gagaccactt	tttaaaaagc	aatgacttag	180
gcaaaccaac	cctaattggt	tgtagacca	tttccttggt	tttaattaaa	aatcataggg	240
ttgtgcttct	gtataaagtt	tgtacatttc	acaatgtaaa	atactgacat	t	291

<210> 283
 <211> 423
 <212> DNA
 <213> Canis familiaris

<400> 283						
atgcaaccac	acggaattta	ttgaacattt	tcacaagtga	tttcattaaa	ggaaggcttt	60
ttcgtgccta	tattggttac	catcactttt	gccctatca	caatctcatg	gtgtagtcct	120
tgcatgtagc	aggaactcaa	caaagtctct	ctaaattgac	agatggagcc	ccagacgacc	180
taaaacttgc	actttagaag	cacttacttc	atcctgagct	attatgaata	aggaactcaa	240
gtgactgtta	aaagcattct	actgatgagt	tggtaatgtt	ctaaagcaac	atatctcaaa	300
ggaaaggata	ttgagtttgt	ctccaccata	aaatcctatt	tttaaacaaa	ggtactactt	360
aaaaatggtc	ttcaaaggc	ctcagcagag	gttctaaaga	gatgtgacaa	tatgccgaag	420
ctt						423

<210> 284
 <211> 299

<212> DNA

<213> Canis familiaris

<400> 284

aacatataaa	aacattttatt	cactaggaat	aattgtggca	gacacaatcc	agtgaaagca	60
gctcaatcct	gctcagtttag	gctagttgaa	gaaccatact	ttaaaaaaag	aaaggaagac	120
aggcaaacia	gtgtttttaca	ggagcaacag	acttcaaggt	cacccccaca	agacaccctg	180
cacagcaggg	acgggggacag	ggaggatgac	ctcttagggc	ctgtgccttc	gcagaggtgc	240
tcggcggatg	ggtgtggtct	tcttgggtgt	ctcctcttct	gtcatctatg	ccgaagctt	299

<210> 285

<211> 223

<212> DNA

<213> Canis familiaris

<400> 285

aagcttcggc	ataaacgac	cattctcctc	ggcctcccaa	agtgctaagg	ttccaggcgt	60
gaaccacat	gcccagcctg	ttcttttttt	tatctctagg	tggtgctctc	cagctgtagt	120
agaaatagca	tttgatttgg	atctattttt	ttaaataagg	actaaataga	gaccattttg	180
ttagagtga	atgccaaaca	agaacgagat	ttttctcttg	gct		223

<210> 286

<211> 467

<212> DNA

<213> Bos taurus

<400> 286

ctcagttcaa	gtttaataga	aacaacaaaa	gatcaaaagt	gatgccttgc	tactactgta	60
catatcagtt	ggcctgcccc	atagcacacc	tcagaccatc	ctctccagag	gaagaaaggg	120
tggectcccc	aacccttgca	ggaaagggcg	gtcttgtccc	ataccacata	ccacatctgc	180
agagtctaaa	gtcttgttat	aagcatgaca	atagtacaaa	aaaagattct	gttttcatgg	240
atcccccat	acagcccgga	cctaaaaatgg	cgaggcgctc	acttctgctt	agagaaatat	300
tctttgctct	tctggacatc	aggcttgatg	gtatcactgc	cagggttcca	gccagctggg	360
cacacttccc	catgcttgtc	agtaaaactgg	aaggcctgaa	ccagtcgcag	tgtctcatcc	420
acagagcgac	caacaggaag	gtcgtttaca	gtgatatgcc	gaagctt		467

<210> 287

<211> 387

<212> DNA

<213> Bos taurus

<400> 287

ctagtttagag	tcagatgttt	atttaaaaaat	ctgatccact	aaaacttagc	gttttccacc	60
aactcggggg	gcggaaacct	tcacaggctt	cacaatcttt	tgcttaggtg	ctgcctttgt	120
gggagcctta	gcagcagcca	ttgctgtctt	tttagatgct	tgcttagcct	tttttgcttc	180
cttggcagcc	ctgatggcct	gttctcgctt	agccttccta	acttcagggt	tctgattcct	240
cttagccatt	atatcagcaa	gagatgcccc	agtgatggcc	ctctggaatt	tgactgcaag	300
gcggtttctt	ttcttctgaa	tttcttccga	ctgtcccttt	ttgtgctttc	ttctgtagag	360
gacagtccag	ttgatatgcc	gaagctt				387

<210> 288

<211> 309

<212> DNA

<213> Homo sapiens

<400> 288

ctaaggtgat	atagaagtgg	actaaggagg	agccaaagtt	ggcaatccca	ttaatcttac	60
------------	------------	------------	------------	------------	------------	----

aacttcctaa	attatggcaa	tcacaatgcc	tgctgaatg	aatatagcaa	gtcctaaagg	120
atgtcttctg	tgagggcaga	tggaagttaa	cttcaactca	actccatcta	ctatttaagg	180
gaaggataag	tcaaagtaag	agttaattat	ttcaacatgg	tttgttccat	tcatgattta	240
accacactat	ggaccccaga	agcagttagg	taaaagggat	tttctagaag	cttaattatg	300
ccgaagctt						309

<210> 289

<211> 420

<212> DNA

<213> Canis familiaris

<400> 289

aaaagagcat	acttatcagt	tgaatgggga	tagaggtttt	agatattttc	caaaatattt	60
ataaaacact	tcattgttga	gaaatcactt	acagaatggg	ggctatcaaa	caaataatta	120
taaattttta	aagcacaagt	cacatgtttt	gtaactcctg	tgtgaattta	ttttagctgt	180
gacatttaat	tgaaaacatc	agatatgttt	tggaagagtc	ttaatttgag	aacaactgaa	240
ggaagttaat	ccagaatcta	tatgtagtta	gctattaatg	atgatgcttt	attgacagta	300
tattgctaata	atatttcttc	atgaaatctg	aagttaaata	gtttcgttgt	ggaatagtgt	360
cactgtaaca	tttcccttac	gaagttcaat	aaaccagctt	tgccataaaa	aaaaaagctt	420

<210> 290

<211> 237

<212> DNA

<213> Homo sapiens

<400> 290

aagctttttt	tttttaagct	gatgtcttat	gactttttat	gagtcgaaat	tgttttgatt	60
tcagcaagtc	aaatcttgta	aaggcccgcg	tatttttttt	aagattatat	gaagtctgtg	120
caaaagcttt	aaaaagaaat	gcctctgcct	tgcttgcaat	acatgcaatg	tacgttaact	180
tcgtctctgt	cctcagacac	tgctcgtatt	tacttccttg	ttttcctttt	tcttaat	237

<210> 291

<211> 398

<212> DNA

<213> Homo sapiens

<400> 291

caaaagaaaa	aaaatagtgt	tttattaact	accacactgt	tataatacac	tttaaacgta	60
caataaggta	gcctttaaat	ttgaggtggg	cttaagaata	acaaatgaac	agaattccaa	120
atttttgaaa	taggtgaact	gctgtagtta	taggtataca	tttaggaaaa	ttgtatagct	180
tttacaagac	cagcaatgaa	actttatttt	gtacattttt	ttaataattg	aaaatataaa	240
caataattaa	aaaataaaaag	aaaatacagc	ataataaaaa	acatacattt	ctcaattaaa	300
tgtactggat	acataataat	ttaaagggaa	gaagcaaaaa	aggaaaatgg	ttgatattta	360
agtgcagact	gactacctag	acgaaaaaaa	aaaagctt			398

<210> 292

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (0)...(0)

<223> n=a, t, g or c

<400> 292

aagcttcatt	ccgacgaccc	aagaccctgc	gtctccgaag	gcagccnaaa	tatcctcgaa	60
------------	------------	------------	------------	------------	------------	----

agagcgcccc	caggagaaac	aagcttgatc	actatgccat	catcaagttc	cccttaacta	120
ctgagtcagc	catgaagaaa	atagaagaca	acaacacact	tgtgttcatt	gtggatgtca	180
aggccaataa	gcaccagatc	aaacaggctg	tgaagaagct	ctatgacatt	gatgtggcca	240
aggccaacac	cttgatcagg	cctgatggag	agaagaaagc	atatgttcga	ctggctcctg	300
actatgatgc	tttggatgtt	gccaacaaaa	ttgggatcat	ctaaactgag	tccagccggc	360
tataaatcta	aataataatt	ttttcaccat				390

<210> 293
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(390)
 <223> n = A, T, C or G

<400> 293	
aagctttttt	60
tttttgggac	
tgtttttgat	
taatgcagtt	
atccaattta	
agtgttttta	
ctttaactca	120
aagtaaaaag	
aaattctcac	
atggtaacta	
ctctatttaa	
atggctcctgg	
aaacattaaa	180
cagctttctg	
ctgcttgctt	
aatggtaata	
cctttgattt	
cttgattcta	
ggacatagct	240
gatttattag	
gtaaagtact	
ctgtcaattt	
taccttcacc	
caagactgtc	
atgtttaaaa	300
tacttttagct	
gtgggagaaa	
tccttgctctg	
tttttattgt	
gagaggaatg	
gtcatcctca	360
aagtctgttt	
ctactacata	
atgtggacta	
attatTTTTT	
ctatcacagt	
attaacaaat	418
ggattttattg	
taaatacaaa	
gaagatatta	
atatactatt	
cttatgtc	

<210> 294
 <211> 421
 <212> DNA
 <213> Canis familiaris

<400> 294	
atggcaaagc	60
tggttttattg	
aacttcgtaa	
gggaaatggt	
acagtgcac	
tattccacaa	
cgaatttatt	120
taacttcaga	
tttcatgaag	
aaatatatta	
gcaatatact	
gtcaataaag	
catcatcatt	180
aatagctaac	
tacatataga	
ttctggatta	
acttccttca	
gttgttctca	
aattaagact	240
tttccaaaac	
atatctgatg	
ttttcaatta	
aatgtcacag	
ctaaaataaa	
ttcacacagg	300
agttacaaaa	
catgtgactt	
gtgctttaa	
aatttataat	
tatttgtttg	
atagccacca	360
ttctgtaagt	
gattttctcaa	
caatgaagtg	
ttttataaat	
atTTTggaaa	
atatctaaaa	420
cctctatccc	
cattcaactg	
ataagtatgc	
tcttttaaaa	
aaaaaaagct	
t	421

<210> 295
 <211> 356
 <212> DNA
 <213> Canis familiaris

<400> 295	
aaagaaagta	60
attatggaac	
tagatTTTTT	
acattgtaaa	
atactaaatg	
atccttcagt	
tgtaaagtga	120
tatatatttg	
taacctttgt	
gaaattgtat	
ccttatgaaa	
ataccacttt	
tgtggaagag	180
agaatccaac	
tatgtaatat	
ttaattaaaa	
caatccatgt	
ttaccctatc	
cctgctcaat	240
taaacagtgt	
atataggtct	
aataatagct	
ctggagcaac	
ttttatcatg	
agtcaaatat	300
attaaacaca	
ttgatgtctt	
cttggtatat	
ctgaaaacaa	
gaggtagaag	
tcctgttgag	356
agtcttttaa	
ataaactatt	
tttacaaatg	
taaaaaaaaa	
aagctt	

<210> 296
 <211> 390

<212> DNA
 <213> Homo sapiens

<400> 296
 aagcttcatt cgcagcagccc aagaccctgc gtctccgaag gcagccgaaa tatectcgaa 60
 agagcgcccc caggagaaac aagcttgatc actatgccat catcaagttc cccttaacta 120
 ctgagtcagc catgaagaaa atagaagaca acaacacact tgtgttcatt gtggatgtca 180
 aggccaataa gcaccagatc aaacaggctg tgaagaagct ctatgacatt gatgtggcca 240
 aggtcaacac cttgatcagg cctgatggag agaagaaagc atatgttcga ctggctcctg 300
 actatgatgc tttggatgtt gccacaacaaa ttgggatcat ctaaactgag tccagccggc 360
 tataaatcta aatataaatt ttttcacat 390

<210> 297
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 297
 aagcttcatt cgggggacac atagccagag aggaggcaaa gaaaatgaaa acaaatagtc 60
 ttcaaaatga ggaaaaagag gaaaacaagt gaggacactg gttttacctc caggaaacat 120
 gaaaaataat ccaaattccat caaccttctt attaattgtca tttcttcctg aggaaggaag 180
 atttgatgtt gtgaaataac attcgttact gttgtg 216

<210> 298
 <211> 165
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> n = A, T, C or G

<400> 298
 ccaaaaagag ccatgcccag agggaaagtt ggaaacgaaa gccaaagtttt catttaaaag 60
 gaaacantaa agagggttagc cagagaaact tgaaccaaag aaaagacagc acgctgttca 120
 gaatggtcaa taagagccta aaacggtacc ctcggaatga agctt 165

<210> 299
 <211> 165
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A, T, C or G

<400> 299
 ccaaaaagag ccatgcccag agggaaagtt ggaaacgaaa gccaaagtttt catttaaaag 60
 gaaacattaa agagggttagc cagagaaact tgaaccaaag aaaagacagc acgctgttca 120
 gaatggtcaa taagagccta aaacggtacc ctcggaatga agctt 165

<210> 300
 <211> 150
 <212> DNA

<213> Homo sapiens

<400> 300

ccatcaa	atg	taattt	at	aaataa	caat	tcaatt	gcat	gttaag	taaa	ccagtt	gtag	60
caatata	aaaa	atacaga	att	ttgagaa	aat	ctggcaa	att	aaacct	gtat	ctaaat	gcag	120
catatt	tctgt	gatact	acgg	aatga	agctt							150

<210> 301

<211> 124

<212> DNA

<213> Canis familiaris

<400> 301

aagattt	caa	agagt	gagca	agtgca	ttag	cagggc	agag	aggcag	cagcag	actc	60	
cctgct	gagc	tgggag	ccaa	cttggg	actc	gatgcc	ggga	cccagg	atc	attacc	cgaa	120
gctt												150

<210> 302

<211> 249

<212> DNA

<213> Canis familiaris

<400> 302

gggtaaa	tcc	gtccagt	tta	ctgtaaa	tat	gccttt	gaca	aactgg	taac	tcatgt	ccca	60
tcccagt	ccc	gagtact	gga	ccaggg	aaac	tccagc	caca	gttgag	ggaa	ggccac	ctgt	120
tggctct	ggg	gcagcag	gtc	atccagt	ggg	cttcagg	agt	caccagg	cct	ctgacc	agtt	180
cctcccc	acc	aagcagt	ttc	agagtt	gtcc	gccaa	gtc	ttcac	ac	ctcgt	gtatg	240
ccgaag	ctt											270

<210> 303

<211> 214

<212> DNA

<213> Canis familiaris

<400> 303

ggactg	ataa	taatagg	att	ttattt	ttaa	aatttat	ctt	agagct	ttca	aagagt	tataa	60
cacacag	atc	tttacc	acca	caccccc	ctt	gcctata	cag	gaaaca	acca	agttgt	gaga	120
acatttt	atca	tgcacag	aca	catcagg	ggt	tgcagg	tgt	acacagg	aat	cacaa	atgct	180
gttccac	atc	atgtctt	ctg	ttatg	ccgaa	gctt						214

<210> 304

<211> 253

<212> DNA

<213> Homo sapiens

<400> 304

agcatat	gta	agatct	ctgg	cttgtag	aag	acaag	tttat	atagc	actta	aaaaa	accatt	60
tgttac	atta	aatgtc	gaac	tcaaact	ttt	aaagag	tata	gaga	actaca	aaatg	gaaaa	120
aggaag	caga	tatacg	ctt	atgagg	aaat	tgtgt	ta	atct	ctc	t	taaaaa	180
ctcttc	ccta	ttatcata	at	gaccac	actg	cccgt	ccta	aaacc	actgg	tcgct	gacat	240
tatgcc	gaag	ctt										270

<210> 305

<211> 311

<212> DNA

<213> Canine familiaris

<400> 305
 aggaagaata aaaacatata aaaacattta ttcactagga ataattgtgg cagacacaat 60
 ccagtgaag cagctcaatc ctgctcagtt aggctagttg aagaaccata ctttaaaaaa 120
 agaaaggaag acaggcaaac aagtgtttta caggagcaac agacttcaag gtcaccccca 180
 caagacacc cgcacagcag ggacggggac agggaggatg acctcttagg gcctgtgcct 240
 tcgcagaggt gctcggcgga tgggtgtggg cttcttgggt gtctcctctt ctgtcatcta 300
 tgccgaagct t 311

<210> 306
 <211> 253
 <212> DNA
 <213> Canis familiaris

<400> 306
 agcatatgta agatctctgg cttgtagaag acaagtttac atagcactta aaaaaccatt 60
 tgttacatta aatgtcgaac tcaaactttt aaagagtata gagaactaca aaatggaaaa 120
 aggaagcaga tatacgcttt atgaggaaat tgtgttaatg atctctcctc taaaaaagga 180
 ctcttcctta ttatcataat gaccacactg cccgtcctta aaaccactgg tcgctgacat 240
 tatgccgaag ctt 253

<210> 307
 <211> 255
 <212> DNA
 <213> Canis familiaris

<400> 307
 aggatcctca tcaataaata gatacatata agaatagcca gactacatca acaaagtgtc 60
 aatatcatgc agcggcttca aatccgaagt ggtggtttga tgtgaagtgg tagtatagct 120
 gtcggaggaa gcacacgatg aggaatgtag agccaataat tacgtgtaat ccgtgaaatc 180
 cagtggctat aaaaaaggta gatccgtata ccccatcgga gattgtaaaa gatgtctcat 240
 agtatgccga agctt 255

<210> 308
 <211> 253
 <212> DNA
 <213> Canis familiaris

<400> 308
 agcatatgta agatctctgg cttgtagaag acaagtttat atagcactta aaaaaccatt 60
 tgttacatta aatgtcgaac tcaaactttt aaagagtata gagaactaca aaatggaaaa 120
 aggaagcaga tatacgcttt atgaggaaat tgtgttaatg atctctcctc taaaaaagga 180
 ctcttcctta ttatcataat gaccacactg cccgtcctta aaaccactgg tcgctgacat 240
 tatgccgaag ctt 253

<210> 309
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 309
 aagcttcggg taaccactgc taataactaa aatactctaa cttggaataa tcgactccga 60
 cgtctttatt tttccaagtt gccttttctt taaaacacct tttcttgatt taatacggaa 120
 taacggtctt cttttccact cgataactat ggtgtcctct tgggttactg cttaagaaaa 180
 gttggtttgg gccatttcg 199

<210> 310
 <211> 562

<212> DNA
<213> Canis familiaris

<400> 310
aagctttttt tttttgaaga tacaagttag agttcaatca gtaccaaagg taaggaaaaa 60
ttaactctat gtacacagtc gagttttatc ctgcttaaaa ttgtcaagta gagaaaattc 120
tgaaaatatt tatgaaaaag ctattctcat gctggcagca atggttaaaa taaagatatt 180
tcctttatta aaaaagaaaa agcctaaaaa acaactttta ataatacaagt tgctgtgaag 240
tgaaaggggt tgaaagtgat gaaactgaag ttaaaagttc tctatatgtg tgttttactt 300
taagcaaatt agacatagtg aataaaattt gaattttcag acaaattatt tgcttttttt 360
ttattttatt tattttattca tgagagacac agagagagag aggcagagac acaggcagag 420
ggagaagcag gctccacgca gggagcccaa tgtgggactc gatctgggaa ctccgggac 480
aagccctgag ctgaaggtag acactcaacc gctgagccac ccaggtgccc tgatttgctt 540
tttaaagaag tctccccctt cc 562

<210> 311
<211> 318
<212> DNA
<213> Canis familiaris

<400> 311
aagcttcggc atacgggtgt aggttacagt ccagttttgt gtgctttact acacgggtttg 60
gttacaggac ttctgtgcat tgtaaaacat aaacagcatg gaaaagggtta aatacctgtg 120
tgcagattgt aagatctggc cgggacttgc tgtgtatatt gtaacgttaa gtgaaaaaga 180
accccccttt gtatcatagt catgcggtct tatgtatgat aaacagttga ataatttgtc 240
ctcagactct ttactatgct tttttaaaat taagaaaaat gtaaataatag taaaaatctt 300
cctatgcaat taacctgg 318

<210> 312
<211> 419
<212> DNA
<213> Homo sapiens

<400> 312
aataaggctt catctagatt tttttctgtg aactgaagtt ggtcaaggat tgtaggcagc 60
agaaggctca caaacggtc agttgaggaa cagttagcag tatctgcaac atcctcaaatt 120
atttccttga acaactctaa ggctagaaga gaacagtttt ctgatctgtc cagaggttgg 180
tttgaccaac gcagtagagc cacagtaggt tctaaacatt tagaacggct tcccagaatg 240
gtgttgccag atggagactg ttcaaataat atctgagtga gcacgtggcg cagctgagtc 300
actgaacaga aggcaagaag taattctaaa acctttgaag aagaatcagg atcctttcca 360
ttgagaagac ctaataactg actaagacat gaagaaaagt gctcatacct ggtaagctt 419

<210> 313
<211> 135
<212> DNA
<213> Canis familiaris

<400> 313
aagcttacca ggtagaggga ctgttgagg tatggacgca cacaggaggg ccaggccaag 60
gcacgagttt ttcagtgaag ggggtaaagc atcacaattt aaaatgtttg caattaaact 120
ggtttggtta atata 135

<210> 314
<211> 143
<212> DNA
<213> Canis familiaris

<400> 314
 cagcgaagag gcattaaaga ttcattgcat aagttttat acaaacaatgt tgtgtatgtt 60
 gaattcaaga gattgatcca tttttcagag actgcacctc ttaaaatgtt ctttttcaca 120
 tctgtttagt ggatcaaaag ctt 143

<210> 315
 <211> 219
 <212> DNA
 <213> Canis familiaris

<400> 315
 atgggtgtgtg tgtgggttca aatagtttat tcacctctgt agtggaaaaa caaggagaaa 60
 taaaatctgc ttacaatggc caaaatttat ggagaagccc taaagttgct ttccccaat 120
 cacaaatctg attcaagaga aggaaaaaaa tgatgaaaaa catctcatca cacaaaactc 180
 agtgtgtgtg ctctgatagt catcagccag cagaagctt 219

<210> 316
 <211> 209
 <212> DNA
 <213> Homo sapiens

<400> 316
 atcatttcaa aaataatcat ttaatgttcc ataattaaac tgtacacgac ctagtcttgg 60
 gacatagaag ccagtggagt gagtttggag cagtcccagg agccaggagt cgagttttca 120
 ttggcctttt ttttctttt tctttttgtc attctgttca tctaagatta tttggatact 180
 tggcacaatc tggctctgct gctaagctt 209

<210> 317
 <211> 217
 <212> DNA
 <213> Canis familiaris

<400> 317
 agaaaaaaaaa ttgataatta ggtgcagata gaaaatatga attagaagag gtttaattcaa 60
 gtgatcagcc tgaaagtcca gcttcattag ctttgtggta aatccaccac ttcagatagt 120
 aactaaagta aatttttaaat ttcataagaa taaagtaatc cctgaaaaga attcactttt 180
 ttcccagaag aagcttataa ttaaaaaaaaaa aaagctt 217

<210> 318
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 318
 attaagaaaa aggaaagcaa ggaagtaa atcgacagtg tctgagaaca gagacgaagt 60
 taacgtacat tgcattgatt gcaggcaagg cagaggcatt tctttttaaa gcttttgcac 120
 agacttcata taatcttaaa aaaaatacgc gggcctttac aagatttgac ttgctgaaat 180
 caaaacaatt tccactcata aaaagtcata agacatcagc tt 222

<210> 319
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 319
 caggctgggtg ttataggtga agataggcat ctcttacaga tgggggtggg ggctgttgtt 60
 actggtgaag ataggcatct agccagagct gccagactc cttcagtga tagataatgt 120

cggcgaaggc tgagagcagg ggcttggact ggtactctat gccatgcttg gcacacaggg 180
 actgcaccag gggagccact ttatggtaat tgtgtcgagg catcgtaagc tt 232

<210> 320
 <211> 126
 <212> DNA
 <213> Canis familiaris

<400> 320
 ctagaggaag tgctttttat ttttagatca accaaacata tttaatataa aaacctttta 60
 atatacaaac tgtaatcaca attgcatcca cgtagcagcg agggaatggg gtgttgcaagg 120
 aagctt 126

<210> 321
 <211> 236
 <212> DNA
 <213> Canis familiaris

<400> 321
 aagcttagag gcagtaaaca ggagcgtccc caagaaaaag aggaaattct cttctaagga 60
 ggagccactt agcagtggac ctgaagaggc tgctggcaac aagagcggca gctccaagaa 120
 aaagaaaaag ctccagaagc tatcccagga agattagaat ggacatttta ccaggtgggg 180
 caaacccaca tgattccaaa cccaccctta tatcccaata aaaacaaatt cacagg 236

<210> 322
 <211> 201
 <212> DNA
 <213> Canis familiaris

<400> 322
 aggcagttgc tttgaacttt atttgagaaa aacaaaaggt aaatgtatca aaagagcata 60
 caggttagtg tgcagggacg gtcagtgatg gctactgagg tgaggatgtg ggctaagcag 120
 ggctaaggcc tttacttggc tccagactgc tccgactttc cagcttcttg gcccccaatc 180
 tgggcacgtg cctctaagct t 201

<210> 323
 <211> 148
 <212> DNA
 <213> Canis familiaris

<400> 323
 aagcttacca ggtgaagagt ggggttggtca tgaccttggc tatgacgccc agcatttcga 60
 ggtggctccc tctattcttt actttgggca tcatagaaaa cgtgtctctg ggggattaat 120
 cttagagaaa aataaagcct ttctgctg 148

<210> 324
 <211> 130
 <212> DNA
 <213> Homo sapiens

<400> 324
 ccaagggttca ccaagctttc aacaagcact gttcttctaa taattcctgc cacaatatat 60
 taatttcttg tagcctactc caacgttctt ctgtccaacg gcacactgct gtccagcgtt 120
 caccaagctt 130

<210> 325
 <211> 206

<212> DNA
<213> Homo sapiens

<400> 325
aagcttagca gcacagcaca ccaacatata caaacaccga gtgactacag tacatgccga 60
ggtaagaaaa gtacattcgg ggagactatc actgacactc aagccatttt tatttccaat 120
atgttttgc ttcacctttc ccagtgccaa aaaaaaaaaa acctagtcac aaattggagt 180
aaataagaat cgggtgccagt tgacct 206

<210> 326
<211> 346
<212> DNA
<213> Canis familiaris

<400> 326
aagcttctgc tggatatgaa agccttcaag gaagagggtg atgaggggga agaagtgcctg 60
tgccaaagtg acagcattca gtgaggaata aagaaaggag ctgagtggta gcaggatgtt 120
gagcttccaa gaaaatctgg tgggtggtgag aaagtggctg ctgtgcactg caaggaaaca 180
gagcgattaa agaaagagat gtgacagggt aggtggaaga gatagccaga agttagaaat 240
gggttacact gaagaagtaa attatttgat taaacaataa gtaaataatac tggggataac 300
aaaagcctga tttctccact gtctcagaag ggatttgcaa gtatgg 346

<210> 327
<211> 375
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<222> (0)...(0)
<223> n = A, T, C, or G

<400> 327
aagctttctc tggatgaaca gttaaattgga acctggaaac ctcttctctgg gattattcct 60
taagcaaggc agtgtcaaag gcaaccctcc cagcaagact tcagaaaaca gctggcagaa 120
ctacaggatc tgggtgtctgg tgtgtaaaat actctcctcc ctgttcaaata gattcagaac 180
atgtgcaaag tgtgctagct ttcattcacat atacataaca gcattatgta tcaagttacc 240
ctgttcaaac aaggagcagg ctctctcttt ttgacttaaa tgacatgaag tgagaaaaaa 300
aatgagaata accntcnngg gaattataga gggttataat tctatccna ctatttcaat 360
aaaagccatc acggg 375

<210> 328
<211> 328
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<222> (1)...(375)
<223> n = A, T, C or G

<400> 328
aagctttctc tggctttccg aaggtaaaac tgttgccgaa gttgctgcgt tacaagagcg 60
tatcccagaa accataaggc tacaacgccg aaattgggag ctacatcagt ttgaatcgat 120
tcaagaaggc catcgctcag gccgtcccaa tacactgacc tcaaactatc aggctcaaata 180
cttagagtgg gtcaacacaa gccactcaa tgcagaacaa atccgagtca aactgcatga 240


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aaaacacggt gtgtccgtgt ctgttgaaac tcttcgcaag tttttgcgag attcagggcat    300
ggtcttcaaa cgcacccgcc acagcttg                                         328

<210> 329
<211> 160
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<222> (0)...(0)
<223> n = A, T, C or G

<400> 329
gactgagacc atttattcna gacacgcagc tgaccaagga gtgagggagg gaccaggtgt    60
gcaagctaataaatagagga gggggagact tcctggagct gtagccattc agtcttcatt    120
cttctcaggc atgaaggcat ctcttttctg accaaagctt                            160

<210> 330
<211> 128
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<222> (1)...(160)
<223> n = A, T, C or G

<400> 330
aagcttttggc cagcaattat attagtttgc atttttagtga caggtgtaag agaaaggccc    60
cttcttcctt tactgggaca aatctagaaa tcttacacag atgtgcaaataaagctcgcg    120
tggtgttc                                         128

<210> 331
<211> 116
<212> DNA
<213> Canis familiaris

<400> 331
gagcagcagt gagcaaaacc cacgaagttg ttttaagggtt acagctatga ataaacattg    60
tccaacaataaagatttag ggctgaagaa cgagcgtatg tctacagtcg aagctt        116

<210> 332
<211> 248
<212> DNA
<213> Canis familiaris

<400> 332
caggtgcaag aggtttgttt gggaggtaat cctagaaacc acagaagggg gtggggatag    60
gagggatggc aggaaaacca gtaagaactg tgttattgag aaggttatca ctgtggacaa    120
ctggcacaga atacacttca gagctgtcgc cctgaggggac aatgacgcca aggtcttttt    180
ctctaagtcc tgttttcttat aggccgaggg tggctcctgg gagcagtaac tgccaacagt    240
cgaagctt                                         248

<210> 333
<211> 231

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<212> DNA
 <213> Canis familiaris

<400> 333
 aagcttgatt gcccatacct gagccattga tatatttgaa aattatggca caaatggaag 60
 agaaccacat ttgaaaagct tccagccttt caacagaaga taactcttct tgttttgcag 120
 attgagcaga taatttcttt tgaaggatgat agtttcctaa attggataaa accgtggctg 180
 ccattatatt cacagaaaat aaaatgaaa cttcagttaa ttgtggattt g 231

<210> 334
 <211> 239
 <212> DNA
 <213> Canis familiaris

<400> 334
 catatatatt ctttttttatt tcttgttata ctttcccaa acagagacat tcaacagtag 60
 ttagaatggc catctcccaa cattttaaaa aaactgcacc cccaatggg tgaacaaagt 120
 aaagagtagt aacctagagt tcagctgagt aagccactgt ggagccttaa gtggtgaggt 180
 cttccaattt cagagtgatg tgtcttcaac ttgtatcatc attttagcgg taaaagctt 239

<210> 335
 <211> 142
 <212> DNA
 <213> Canis familiaris

<400> 335
 ccaaagaagt gtttattaac atttggggcc tcagcggggc cagagaggaa gtgggtgcta 60
 gaggtccttg aggtcaggg caaggcctgc aagacagatc ccattgctca ggaggcagcc 120
 cagattgcaa atggaagaca gg 142

<210> 336
 <211> 220
 <212> DNA
 <213> Canis familiaris

<400> 336
 aagcttgcac catatatata actcttgggc agaggggtctg gcatacataa gtagatactc 60
 agaaatatct gttggattgt gttgatttaa ttatttttgt gttgcttctt ttaaagatga 120
 gcactttcta ttagatattt tttgatcaa aaaaaagata tttttttgat catacagatt 180
 taagcaggat ttttattaat tcgtttctct tcttggttgg 220

<210> 337
 <211> 136
 <212> DNA
 <213> Canis familiaris

<400> 337
 ggggcagata aaaacactta atgtaaaatt taccctctca gaaaaatttc cagtatgcta 60
 tacggtatca ctaactatag tcactatagt atacagtaga tccctaggat ttattcatga 120
 tgtacagtgc aagctt 136

<210> 338
 <211> 280
 <212> DNA
 <213> Canis familiaris

<400> 338

caagttttac cattgtttta attattgaaa caaaattaac gtaagtagaa tcatgtgcaa	60
cagtgtctct aacatatgga agaggtaa atgaatttta tacaataagg tatattatcc	120
actgtaacaa atttccaata atttggcatt tatctttcac aaaatgtctc ccaaattcta	180
agcaaagtat gcaaattgga gattaactct aaacaggcat aattatcttc ttatccagtt	240
tttctgaaga gactgaagag ttcaggtctg accaaagctt	280

<210> 339
 <211> 192
 <212> DNA
 <213> Canis familiaris

<400> 339	
aagcttgac catactctc ctctacatat gctcccaa taccttctaa aaaggctgta	60
ttaatttact ttcaccagta gtattatgag agtgcccatg tcccttagcc ttttaaaatt	120
cactatgagc aatcttttaa tcatgtacta aatcttatag gcaaagaata gggccttgcc	180
cctgccctg tt	192

<210> 340
 <211> 137
 <212> DNA
 <213> Canis familiaris

<400> 340	
attccttttc caaggacctc tcttctatgt gatcactgag taagttcagt cactcccatc	60
atctctagat tggagatttc caaatttatg gcctttccta actttgaagt ccttatttct	120
aactgcctac taagctt	137

<210> 341
 <211> 203
 <212> DNA
 <213> Canis familiaris

<400> 341	
aagcttagta ggcaataata gagaagtaga aattgaatgt ggaacattaa ccattaaaaa	60
tcatactttt gaatgtgctg aggtcatgaa ttgtttttac cttctttgta atttgtgttt	120
ttcagatttt ctgtagttag catatattct ataatcagaa aaagatgctt caagtttttt	180
gcagatttca cagaattttg ttt	203

<210> 342
 <211> 203
 <212> DNA
 <213> Canis familiaris

<400> 342	
aaacaaaatt ctgtgaaatc tgcaaaaaac ttgaagcatc tttttctgat tatagaatat	60
ctgctaacta cagaaaatct gaaaaacaca aattacaaag aagataaaaa caattcatga	120
cctcagcaca ttcaaaagta tgatttttaa tggttaatgt tccacattca atttctactt	180
ctctattatt gcctactaag ctt	203

<210> 343
 <211> 219
 <212> DNA
 <213> Canis familiaris

<400> 343	
aattgtcacg aacagggtctg actgacactg cagtgtgtcc ttgtttgttg atccctgatc	60
taggcctcgg cttttcaaac tgcagttgat caaactggga tatgcttcgg ctgaatctgc	120

tctctggtgc ttctctttaa tcgttttctc cttaaattggg ttactttctt actaggaaaa	180
aaaaaatggt ccacctctgg aattaacgtt gagaagctt	219

<210> 344
 <211> 368
 <212> DNA
 <213> Canis familiaris

<400> 344	
aagcttcgac tgctgcacatca atgaatgttt taagtaataa ctttgctggt tatcagcttg	60
atgggtgcatt aattttatgg ctcatcttct ttatttttgac cattgtcgga ttcttcattt	120
tatattggac gatccccaat cgaacggtag caattttttc agctgtgatt gcggcatgtt	180
tcaacgcgac cgtttttgaa attttaaaac atttatttgg ctgggtcatg agtaatttca	240
ccagctatga aatcgtttat ggtgcttttg cagcagttcc tatttttcta ctttggatct	300
atctgtcttg gaatatcatt ttattgggtg tagaagttag ttatgcactc accgccttcc	360
attctggt	368

<210> 345
 <211> 261
 <212> DNA
 <213> Canis familiaris

<400> 345	
agaatcaagc caccaggtgt ttatttttgc actataaata gagttcccta gtcccathtt	60
gttacataat atatgagata acagagaacc taaaattcat ttggtgaaaa tcaagtgtgt	120
agtataccta aataccaatg agctagtaga acttgtagag cactgaagct aaggctaaca	180
gcaacagagt cttttatgaa aataatttca gaaccacaac gcatttctctg atggtgcatt	240
cccctgggac agtcgaagct t	261

<210> 346
 <211> 193
 <212> DNA
 <213> Canis familiaris

<400> 346	
catcgcagac atttattttta gttttgttaa tttcaaatat tcattaacct cttgtatcag	60
attttaaggca gagaaaagat acacgcccct ggtaaactga accgggggtt agatagtgtg	120
gtccaccctg ggttccacca gggagacctc acccgagatg acaggtccgg ttgctgggtgc	180
acagtcgaag ctt	193

<210> 347
 <211> 253
 <212> DNA
 <213> Canis familiaris

<400> 347	
aagcttagta ggcacgcaat aaataggaga atgaatcaga gtcctccaac gcgtcctccc	60
taatgtccct ttgagctgcc tcctcttcca ctctgectca gcttgtccat gtcacttcgc	120
tccagagcag ccgcaagagc atcttaaacac cttgtggcct gaactctctc ccacccctcca	180
ctgtacagtg atatgactga aacctcattt aaccttttag aactaccagg aggaggttcc	240
caagatccc agg	253

<210> 348
 <211> 188
 <212> DNA
 <213> Canis familiaris

<400> 348
 ccatttttgc tcttaaagag catcttaagt gagagatcat gacaatcttt ggccactcca 60
 gggttttctca tctactacat gatctgttcc caacaataag ccattgaaat taaagggtctc 120
 cagaagtttt atctgggggc tgtgattgaa aagaaggaaa atgagatgag agactgccta 180
 ctaagctt 188

<210> 349
 <211> 189
 <212> DNA
 <213> Canis familiaris

<400> 349
 cccataagaa acatctttaa aacattcaga atactcagga taatcaaggc taatattcct 60
 ataaattcct tacgtgtatt atgtacattc agaaaagtgt aaattactca aatattatac 120
 tcaaaacccc ttatagtctg ctaacttgca tgtagaacaa tctgaagtaa catgctgcct 180
 actaagctt 188

<210> 350
 <211> 174
 <212> DNA
 <213> Canis familiaris

<400> 350
 aagcttagta ggcacatcaatt ggatcctttc ctatgttgaa atggaagaat taatgagctt 60
 acattaatta gtattgtaat gtgtaaagga agcccagcaa aattttttga aaacttgatg 120
 atcccaacgt atttaccatt gtatgtttaa gcaaaaataa tcaccatttt tttt 174

<210> 351
 <211> 115
 <212> DNA
 <213> Canis familiaris

<400> 351
 aagctttctca acggcctcca cctcctttct gccctcacag cctcctggct ctggcccaaa 60
 aagtgttca tttgtaaatt atcatggtt tctgcattaa aatggccatt tctgg 115

<210> 352
 <211> 451
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> n = A, T, C or G

<400> 352
 aagcttttgc cgccatcttg gctcctgtgg aggcctgctg ggaccaggac tcctaaagcg 60
 acganttttt ntggaaggct ttggtccaag gccatttttg cgggtataa acgggggtctc 120
 cggaacccaaa gggagcacac agctcttctt aaaattgaag gtgtttacgc ccgagatgaa 180
 acagaattct atttgggcaa gagatgcgct tatgtatata aagcaaaaga acaacacagt 240
 cactcctggc ggcaaaccaa acaaaaccag nagtcatctg gggaaaagta actctgggccc 300
 catggaaaca agtggcatgn gttccgtgcc aaattccgaa gcaatnttcc tgctaattgcc 360
 attggacaca gaatccgagt gatgctgtac cctcanagg atttaaaact aacgaanaan 420
 caataaataa atgtggattt gcgntcttng g 451

<210> 353

<211> 242
 <212> DNA
 <213> Canis familiaris

<220>

<221> misc_feature
 <222> (1)...(451)
 <223> n = A, T, C or G

<400> 353
 caattggttt agttttatth caaaattgta caaaatggcc ataagcggct ataaaaaatt 60
 tcgttttcgg aacacgtgga aattcagaaa gaacaacaaa gcaggttatc atttcacagt 120
 gtaatggaaa agctctctct gaggcaggaa tcacaactct tccttcttct tccccagtct 180
 ctcgtggtct ccttcccgga gcgctcgaat gaaactggta aaccccgatt ccgtccgac 240
 gc 242

<210> 354
 <211> 239
 <212> DNA
 <213> Canis familiaris

<400> 354
 catatatatt cttttttatt tcttggtata ccttcccaaa acagagacat tcaacagtag 60
 ttagaatggc catctcccaa catttttaaaa aaactgcacc ccccaatggg tgaacaaagt 120
 aaagagtagt aacctagagt tcagctgagt aagccactgt ggagccttaa gtggtgaggt 180
 cttccaattt cagagtgatg tgtcttcaac ttgtatcatc attttagcgg taaaagctt 239

<210> 355
 <211> 163
 <212> DNA
 <213> Canis familiaris

<400> 355
 ccaaagaagt gtttattaac atttggggcc tcagcggggc cagagaggaa gtgggtgcta 60
 gaggtcctg aggetcaggg caaggcctgc aagacagatc ccattgctca ggaggcagcc 120
 cagattgcaa atggaagaca ggccatggta gcggtaaaaag ctt 163

<210> 356
 <211> 161
 <212> DNA
 <213> Canis familiaris

<400> 356
 gcactaaatt caaaccaatg acctcccatg ttctaattct gattgtttta tccaactggg 60
 agggtaaacy ggagactctt tggcctgtca gtgacaaaat ggtttgtaaa aaagaaaaaa 120
 taaatacgat atacaagtaa gtataactag cactcaagct t 161

<210> 357
 <211> 253
 <212> DNA
 <213> Canis familiaris

<400> 357
 agcatatgta agatctctgg cttgtagaag acaagtttat atagcactta aaaaaccatt 60
 tgttacatta aatgtcgaac tcaaactttt aaagagtata gagaactaca aaatggaaaa 120
 aggaagcaga tatacgcttt atgaggaaat tgtgttaatg atctctcctc taaaaaagga 180

ctcttcccta ttatcataat gaccacactg cccgtcctta aaaccactgg tcgctgacat	240
tatgccgaag ctt	253

<210> 358
 <211> 222
 <212> DNA
 <213> Canis familiaris

<400> 358	
aagcttcggc atagttactg tttgatttta agtttttata tagttcttag ttttgaagaa	60
atccttcaag aacagtttct ctaaagagca tgttttaatt aaatgctaataaattacctt	120
tcttagtttt ccaatttagt agggcacttt caatgtctat taaagtgaataaaccttct	180
gaacttaaac atttttaaat cgattaaaaa ttgtgtcaaa at	222

<210> 359
 <211> 291
 <212> DNA
 <213> Canis familiaris

<400> 359	
aagctttttt tttttcaaaa cggatttgta aaaactgtat ttcttactgtgcacaaaac	60
cttttataact aaataaatat caaactacat tcttcagaaa gatgtttcta gtatttttct	120
taggtcactt ccatatgtag tatgtacagt gagaccactt tttaaaaagc aatgacttag	180
gcaaaccaac cctaattggtt tgtagacca tttccctggt ttttaattaaa aatcataggg	240
ttgtgcttct gtataaagt tgtacatttc acaatgtaaa atactgacat t	291

<210> 360
 <211> 423
 <212> DNA
 <213> Canis familiaris

<400> 360	
atgcaaccac acggaattta ttgaacattt tcacaagtga tttcattaaa ggaaggcttt	60
ttcgtgccta tattggttac catcactttt gccctatca caatctcatg gtgtagtcct	120
tgcatgtagc aggaactcaa caaatgtctg ctaaattgac agatggagcc ccagacgacc	180
taaaacttgc actttagaag cacttacttc atcctgagct attatgaata aggaactcaa	240
gtgactgtta aaagcattct actgatgagt tggtaattgt ctaaagcaac atatctcaaa	300
ggaaaggata ttgagtttgt ctccaccata aaatcctatt tttaaacaaa ggtactactt	360
aaaaatggtc ttccaaaggc ctcagcagag gttctaaaga gatgtgacaa tatgccgaag	420
ctt	423

<210> 361
 <211> 299
 <212> DNA
 <213> Canis familiaris

<400> 361	
aacatatata aacatttatt cactaggaat aattgtggca gacacaatcc agtgaaagca	60
gctcaatcct gctcagtttag gctagttgaa gaaccatact ttaaaaaaag aaaggaagac	120
aggcaaacaa gtgttttaca ggagcaacag acttcaaggc caccaccaca agacaccctg	180
cacagcaggg acggggacag ggaggatgac ctcttagggc ctgtgccttc gcagaggtgc	240
tcggcggatg ggtgtggtct tcttgggtgt ctctcttct gtcacttatg ccgaagctt	299

<210> 362
 <211> 223
 <212> DNA
 <213> Canis familiaris

<400> 362
aagcttcggc ataaacgata cattctcctc ggctcccaa agtgctaagg ttccaggcgt 60
gaaccacat gccagcctg ttcttttttt tatctctagg tgggtgctctc cagctgtagt 120
agaaatagca ttgtattgg atctattttt ttaaataagg actaaataca gaccattttg 180
ttagagtga atgccaaca agaacgagat ttttctctg gct 223

<210> 363
<211> 420
<212> DNA
<213> Canis familiaris

<400> 363
aaaagagcat acttatcagt tgaatgggga tagagggttt agatattttc caaaatattt 60
ataaaacact tcattgttga gaaatcactt acagaatggg ggctatcaaa caaataatta 120
taaattttta aagcacaagt cacatgtttt gtaactcctg tgtgaattta ttttagctgt 180
gacatttaat tgaaaacatc agatatgttt tggaaaagtc ttaatttgag aacaactgaa 240
ggaagttaat ccagaatcta tatgtagtta gctattaatg atgatgcttt attgacagta 300
tattgcta atatttcttc atgaaatctg aagttaaata gtttcgttgt ggaatagtgt 360
cactgtaaca tttcccttac gaagttcaat aaaccagctt tgccataaaa aaaaaagctt 420

<210> 364
<211> 421
<212> DNA
<213> Canis familiaris

<400> 364
atggcaaagc tggtttattg aacttcgtaa gggaaatggt acagtgcac tattccacaa 60
cgaaattatt taacttcaga tttcatgaag aaatatatta gcaatatact gtcaataaag 120
catcatcatt aatagctaac tacatataga ttctggatta acttccttca gttgttctca 180
aattaagact tttccaaaac atatctgatg ttttcaatta aatgtcacag ctaaaataaa 240
ttcacacagg agttacaaa catgtgactt gtgctttaa aatttataat ttttgtttg 300
atagccacca ttctgtaagt gatttctcaa caatgaagtg ttttataaat attttggaag 360
atatctaaaa cctctatccc cattcaactg ataagtatgc tcttttaaaa aaaaaagct 420
t 421

<210> 365
<211> 356
<212> DNA
<213> Canis familiaris

<400> 365
aaagaaagta attatggaac tagattttta acattgtaaa atactaaatg atccttcagt 60
tgtaagttga tatatatttg taacctttgt gaaattgtat ccttatgaaa ataccacttt 120
tgtggaagag agaatccaac tatgtaatat ttaattaaaa caatccatgt ttaccctatc 180
cctgtcfaat taaacagtgt atataggtct aataatagct ctggagcaac ttttatcatg 240
agtcaaatat attaaacaca ttgatgtctt cttggatat ctgaaaacaa gaggtagaag 300
tcctgttgag agtcttttaa ataaactatt ttacaaatg taaaaaaaaa aagctt 356

<210> 366
<211> 165
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<222> (0)...(0)

<223> n = A, T, C, or G

<400> 366
ccaaaaagag ccattgcccag agggaaaagtt ggaaacgaaa gccaaagtttt cattttaaag 60
gaaacantaa agaggtttagc cagagaaact tgaaccaaag aaaagacagc acgctgttca 120
gaatggtcaa taagagccta aaacggtacc ctcggaatga agctt 165

<210> 367
<211> 165
<212> DNA
<213> Canis familiaris

<220>

<221> misc_feature
<222> (1)...(165)
<223> n = A, T, C or G

<400> 367
ccaaaaagag ccattgcccag agggaaaagtt ggaaacgaaa gccaaagtttt cattttaaag 60
gaaacattaa agaggtttagc cagagaaact tgaaccaaag aaaagacagc acgctgttca 120
gaatggtcaa taagagccta aaacggtacc ctcggaatga agctt 165

<210> 368
<211> 124
<212> DNA
<213> Canis familiaris

<400> 368
aagatttcaa agagttagca agtgcattag cagggcagag agagaggcag cagcagactc 60
cctgctgagc tgggagccaa cttgggactc gatgccggga ccccaggatc attaccgaa 120
gctt 124

<210> 369
<211> 249
<212> DNA
<213> Canis familiaris

<400> 369
gggtaaatcc gtccagttta ctgtaaatat gcctttgaca aactggtaac tcatgtccca 60
tcccagtccc gagtactgga ccagggaaac tccagccaca gttgagggaa ggccacctgt 120
tggctctggg gcagcaggtc atccagtggg cttcaggagt caccaggcct ctgaccagtt 180
cctccccacc aagcagtttc agagttgtcc gccaaagtcta tttcacacct ctctgtgtatg 240
ccgaagctt 249

<210> 370
<211> 214
<212> DNA
<213> Canis familiaris

<400> 370
ggactgataa taataggatt ttattttctaa aatttatctt agagctttca aagagtataa 60
cacacagatc tttaccacca cccccctt gcctatacag gaaacaacca agttgtgaga 120
acatttatca tgcacagaca catcagggtc tgcagggtgct acacaggaat cacaatgct 180
gttccacatc atgtcttctg ttatgccgaa gctt 214

<210> 371

<211> 311
 <212> DNA
 <213> Canis familiaris

<400> 371
 aggaagaata aaaacatata aaaacattta ttcactagga ataattgtgg cagacacaat 60
 ccagtgaag cagctcaatc ctgctcagtt aggctagttg aagaaccata ctttaaaaaa 120
 agaaaggaag acaggcaaac aagtgtttta caggagcaac agacttcaag gtcaccccca 180
 caagacaccc tgcacagcag ggacggggac agggaggatg acctcttagg gcctgtgcct 240
 tcgcagaggt gctcggcgga tgggtgtggt cttcttgggt gtctcctctt ctgtcatcta 300
 tgccgaagct t 311

<210> 372
 <211> 253
 <212> DNA
 <213> Canis familiaris

<400> 372
 agcatatgta agatctctgg cttgtagaag acaagtttac atagcactta aaaaaccatt 60
 tgttacatta aatgtcgaac tcaaactttt aaagagtata gagaactaca aaatggaaaa 120
 aggaagcaga tatacgcttt atgaggaaat tgtgttaatg atctctcttc taaaaaagga 180
 ctcttcctta ttatcataat gaccacactg cccgtcctta aaaccactgg tcgctgacat 240
 tatgccgaag ctt 253

<210> 373
 <211> 253
 <212> DNA
 <213> Canis familiaris

<400> 373
 agcatatgta agatctctgg cttgtagaag acaagtttat atagcactta aaaaaccatt 60
 tgttacatta aatgtcgaac tcaaactttt aaagagtata gagaactaca aaatggaaaa 120
 aggaagcaga tatacgcttt atgaggaaat tgtgttaatg atctctcttc taaaaaagga 180
 ctcttcctta ttatcataat gaccacactg cccgtcctta aaaccactgg tcgctgacat 240
 tatgccgaag ctt 253

<210> 374
 <211> 318
 <212> DNA
 <213> Canis familiaris

<400> 374
 aagcttcggc atacgggtgtg aggttacagt ccagttttgt gtgctttact acacggtttg 60
 gttacaggac ttctgtgcat tgtaaaacat aaacagcatg gaaaagggtta aatacctgtg 120
 tgcagattgt aagatctggt ccggacttgc tgtgtatatt gtaacgttaa gtgaaaaaga 180
 accccccttt gtatcatagt catgcggtct tatgtatgat aaacagttga ataatttgtc 240
 ctcagactct ttactatgct tttttaaaat taagaaaaat gtaaatatag taaaaatctt 300
 cctatgcaat taacctgg 318

<210> 375
 <211> 135
 <212> DNA
 <213> Canis familiaris

<400> 375
 aagcttacca ggtagaggga ctggttgagg tatggacgca cacaggaggg ccaggccaag 60
 gcacgagttt ttcagtgaag ggggtaaagc atcacaattt aaaatgtttg caattaaact 120

ggtttggttaa atatc

135

<210> 376

<211> 143

<212> DNA

<213> Canis familiaris

<400> 376

cagcgaagag gcattaaaga ttcatgccat aagtttattt acaaacatgt tgtgtatggt	60
gaattcaaga gattgatcca tttttcagag actgcacctc ttaaaatggt ctttttcaca	120
tctgtttagt ggatcaaaag ctt	143

<210> 377

<211> 219

<212> DNA

<213> Canis familiaris

<400> 377

atggtgtgtg tgtgggttca aatagtttat tcacctctgt agtggaaaaa caaggagaaa	60
taaaatctgc ttacaatggc caaaatttat ggagaagccc taaagttgct ttccccaat	120
cacaaatctg attcaagaga aggaaaaaaa tgatgaaaaa catctcatca cacaaaactc	180
agtgtggtgt ctctgatagt catcagccag cagaagctt	219

<210> 378

<211> 217

<212> DNA

<213> Canis familiaris

<400> 378

agaaaaaaaaa ttgataatta ggtgcagata gaaaatatga attagaagag gttaattcaa	60
gtgatcagcc tgaaagtcca gcttcattag ctttgtggta aatccaccac ttcagatagt	120
aactaaagta aattttaaat ttcataagaa taaagtaatc cctgaaaaga attcactttt	180
ttcccagaag aagcttataa ttaaaaaaaaaa aaagctt	217

<210> 379

<211> 126

<212> DNA

<213> Canis familiaris

<400> 379

ctagaggaag tgctttttat ttttagatca accaaacata tttaatataa aaacctttta	60
atatacaaac tgtaatcaca attgcatcca cgtagcagcg agggaatggg gtgttgcagg	120
aagctt	126

<210> 380

<211> 236

<212> DNA

<213> Canis familiaris

<400> 380

aagcttagag gcagtaaaca ggagcgtccc caagaaaaag aggaaattct cttctaagga	60
ggagccactt agcagtggac ctgaagaggc tgctggcaac aagagcggca gctccaagaa	120
aaagaaaaag ctccagaagc tatcccagga agattagaat ggacatttta ccaggtgggg	180
caaaccaca tgattccaaa cccaccctta tatccaata aaaacaaatt cacagg	236

<210> 381

<211> 148

<212> DNA
 <213> Canis familiaris

<400> 381
 aagcttacca ggtgaagagt ggggttgtca tgaccttggc tatgacgccc agcatttcga 60
 ggtggctccc tctattcttt actttgggca tcatagaaaa cgtgtctctg ggggattaat 120
 cttagagaaa aataaagcct ttctgctg 148

<210> 382
 <211> 346
 <212> DNA
 <213> Canis familiaris

<400> 382
 aagcttctgc tggatatgaa agccttcaag gaagagggta atgaggggga agaagtgcctg 60
 tgccaaagtg acagcattca gtgaggaata aagaaaggag ctgagtggta gcaggatgtt 120
 gagcttccaa gaaaatctgg tgggtggtgag aaagtggctg ctgtgcactg caaggaaaca 180
 gagcgattaa agaaagagat gtgacagggg aggtggaaga gatagccaga agttagaaat 240
 gggttacact gaagaagtaa attatttgat taaacaataa gtaaataatac tggggataac 300
 aaaagcctga tttctccact gtctcagaag ggatttgcaa gtatgg 346

<210> 383
 <211> 375
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> n = A, C, T or G

<400> 383
 aagctttctc tggatgaaca gttaaattgga acctggaaac ctcttcctgg gattattcct 60
 taagcaaggc agtgtcaaag gcaaccctcc cagcaagact tcagaaaaca gctggcagaa 120
 ctacaggatc tgggtgtctgg tgtgtaaaat actctcctcc ctgttcaaata gattcagaac 180
 atgtgcaaag tgtgctagct ttcattcacat atacataaca gcattatgta tcaagttacc 240
 ctgttcaaac aaggagcagg ctctctcttt ttgacttaaa tgacatgaag tgagaaaaaa 300
 aatgagaata accntcnngg gaattataga gggttataat tctatccna ctatttcaat 360
 aaaagccatc acggg 375

<210> 384
 <211> 328
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <222> (1)...(375)
 <223> n = A,T,C or G

<400> 384
 aagctttctc tggctttccg aaggtaaaac tgttgccgaa gttgctgcgt tacaagagcg 60
 tatcccagaa accataaggc tacaacgccg aaattgggag ctacatcagt ttgaatcgat 120
 tcaagaaggt catcgctcag gccgtcccaa tacactgacc tcaaactatc aggtctcaaata 180
 cttagagtgg gtcaacacaa gccactcaa tgcagaacaa atccgagtca aactgcatga 240
 aaaacacggg gtgtccgtgt ctggtgaaac tcttcgcaag tttttgcgag attcaggcat 300

ggctcttcaaa cgcacccgcc acagcttg

328

<210> 385

<211> 45

<212> DNA

<213> Canis familiaris

<400> 385

tctagtcgac ggccagtga ttgtaatacg actcactata gggcg

45

<210> 386

<211> 30

<212> DNA

<213> Canis familiaris

<400> 386

aagcagtggg atcaacgcag agtacgcggg

30